The American Artisan
And Hardware Record

Vol. 55. No. 16. CHICAGO, APRIL 18, 1908. $2.00 Per Year.

All Kinds of
BOLTS, RIVETS, NUTS, WASHERS, CARRIAGE FORGINGS, ETC.
Send for 1908 Catalog "R" Prices on Application
COLUMBUS BOLT WORKS
COLUMBUS, OHIO

IN THE FRONT RANK FOR 25 YEARS
"AMERICAN SEAL"
ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT
and the superior quality of these goods is still universally recognized.
THE WM. CONNORS PAINT MFG. COMPANY
MAKERS
TROY, N. Y.
Western Agent
FRIEDLEY-VOSHARDT CO.
194-204 Mather Street, Chicago, Ill.
Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

The Hardware Merchant who sells good goods
SELLS ORIGINAL
MATCHLESS
Floor Hinge, Jamb Hinges, and Hardware Specialties.
If your Jobber cannot furnish them, write us.
LAWSON MFG. CO
40 Dearborn St., Chicago, Ill.

NEW DESIGN WORLD'S BEST
TUBULAR TRACK DOOR HANGER

We have increased the diameter of the wheel to 2¼ in., making it the easiest running Hanger on the market.
The supplementary wheel prevents derailment. Frame is made of best grade malleable iron. Finished in Aluminum and each pair packed in an individual box, complete with bolts. The track brackets are slidable and may be placed at any point desired. We do not sell catalog houses. Write for prices.
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, Ohio Hamilton, Ont., Can.

"NEVER-BREAK"
TRADE MARK

Catalog Free
"NEVER-BREAK"
STEEL SPIDERS, GRIDDLES AND KETTLES
WILL NOT Scale Off like cheap enamel.
WILL NOT Scorch or Burn like light fry pans and skillets.
WILL NOT Absorb Grease or Flavors like cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

DELTA
FILES OF QUALITY
CARVER FILE CO., Philadelphia, Pa.
An independent organization not connected with the trust in any form, shape or manner.
To keep up the sales, keep up the quality.
TRADE MARK DELTA
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PULLMAN SASHBALANCES
Are you selling them?

IN USE EVERYWHERE
Send us your orders
PULLMAN MFG. COMPANY
SOPHIA STREET
ROCHSTER, N. Y., U. S. A.

The Largest Assortment of HONES in the world

Also a complete line of cutlery, razor strops and hardware specialties.
S. R. DROESCHER
Importer and Manufacturer
79 Warren St., New York, N. Y.

"Pittsburgh is the Nation's Forge and Anvil and the United States Steel Corporation is its Chief Blacksmith."

Cinderella, Good Luck and Tremont Steel Ranges

are made of the Right Kind of Steel. Being located in Pittsburgh and in close touch with its Steel Mills and Steel Makers, we have every opportunity for knowing how to get

The Right Kind of Steel at the Right Price

All of the steel we use in our Steel Ranges is made for us by the United States Steel Corporation.

It is as much superior to the ordinary commercial steel sheets for making Ranges as leather is to paper for making shoes.

Pittsburgh is the Best Place in America for Making High-Grade Steel Ranges

Our Goods and Prices Prove This.

Stove & Range Co. of Pittsburgh

PITTSBURGH, PA.

Western Agency: W. D. SAGER, 38 to 40 Michigan Street, Chicago, Ill.
Look Him Up. He is Progressive and Equipped for Business.

New Steel Dome Double Return Flue Furnace

BOYNTON'S

New Steel Dome Double Return Flue Furnace

for burning coal and wood is the Best and latest type of wrought plate furnace on the market.

Like all Boynton Furnaces the **Steel Dome Return Flue Furnace,** maintains the general excellence, modern design and absence of complications which have made **The Boynton** the best and most complete line of furnaces made.

Fitted with Boynton's Patented Square Fire Pot and Square Ash Pit.

The smoke pipe damper is both direct and indirect and adjusted by a rod passing over the top of the furnace. Boynton's new patent regulating ventilator furnished with each furnace.

The Boynton Furnace Co.

147 Lake St. **CHICAGO**
207-209 Water St. **NEW YORK**

Only One Stove Can Be The Best

AN EXAMINATION OF THE IMPROVED CONSTRUCTION OF THE

MONITOR

FIVE FRONT FLUE

RADIATOR

WILL CONVINCE YOU THAT

It Is The Greatest Achievement In Stove Making!

NO COMPETITION!

It is the Only Stove of Its Kind Made.

Points for Consideration

1. Front part of stove always the hottest.
2. A feature not to be found in any other make.
3. Heat is radiated into center of room direct.
4. No other stove does this.
5. Fire passes down the 5 front flues, then under stove, and up the back flue to chimney.
6. No stove ever made but the **MONITOR** did this.
7. We guarantee 1683 square inches of radiation more than furnished by other makes.
8. This stove furnishes all this additional heat with the same amount of fuel used in other makes.
9. In addition to above the **MONITOR RADIATOR** has hot air flues of 946 square inch capacity which can be conducted to heat rooms above or utilized in heating the rooms on lower floor.
10. **Best Heater Ever Produced.** Convince yourself.

The

MONITOR STOVE AND RANGE CO.

CINCINNATI, OHIO.

Write and Secure Agency at once Before your Competitor does it.

MORLEY BROS., Saginaw, Mich., Distributors for the State of Michigan
GREAT WESTERN STOVE & REPAIR CO., Minneapolis, Minn. Northwestern Distributors.
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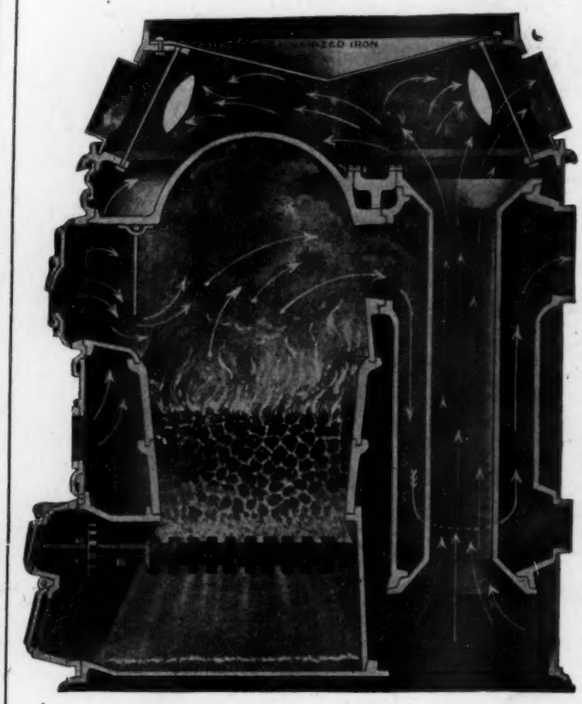
MORLEY-MURPHY HDW. CO., Green Bay, Wis., Distributors for the State of Wisconsin.



Shaded Sectional Cut

of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

The March-Brownback Stove Co.

POTTSTOWN, PA.

Chicago Agency, JOHN KONTNY, 264 South Clinton Street.

Monarch Air Blast

All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

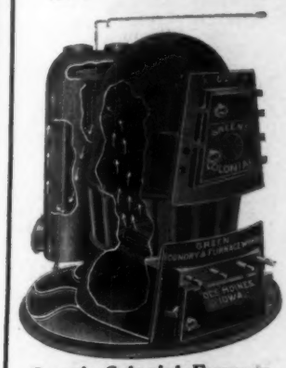
Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.

TASTES DIFFER IN FURNACES

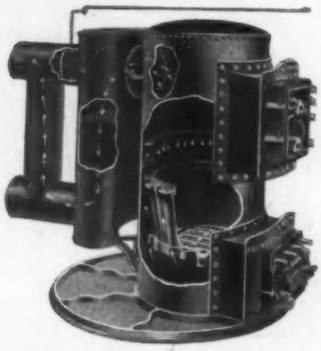
As in Everything Else.



Green's Colonial Furnace.

One style of furnace will not please all of your customers. One man wants a steel furnace, another a cast iron furnace. Can you now supply the demands of all your customers? Why not handle a complete line—high priced furnaces and low priced furnaces; all cast furnaces, all steel furnaces, and furnaces part cast and part steel; furnaces for soft coal, furnaces for hard coal, and furnaces for wood; furnaces with every modern improvement and convenience? We manufacture

GREEN'S Colonial Furnace
GREEN'S Base Heater Furnace
GREEN'S Low Down Furnace
GREEN'S Steel Plate Furnace
GREEN'S Crescent Furnace
GREEN'S Hawkeye Furnace
GREEN'S Wood Furnace
GREEN'S Steel Dome Furnace



Green's Base Heater Furnace.

Green's Low Down Furnace.

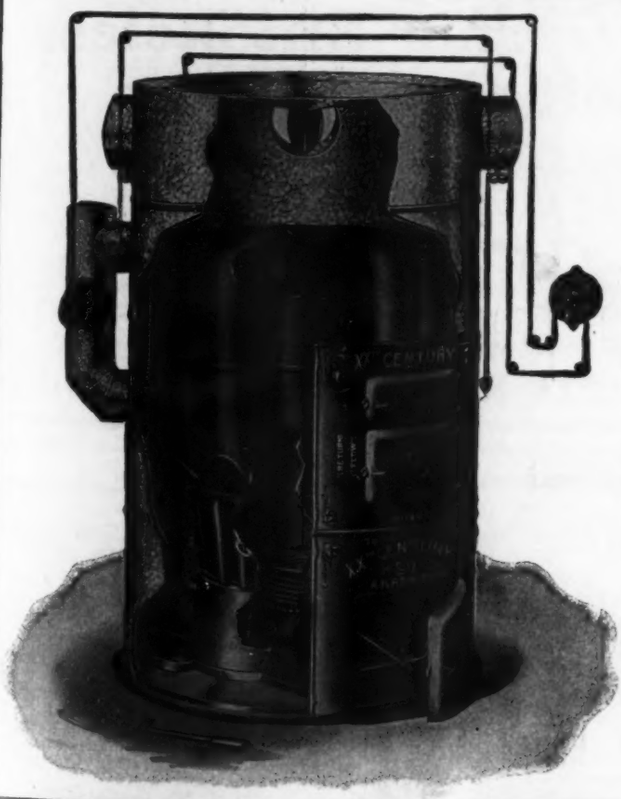
We have a line which will interest you. Our location insures a low freight rate. Our class of workmen insures a high grade article. Our stock of goods insures prompt shipment.

Write for Catalogue and Discounts.

Green's Hawkeye Furnace.

GREEN FOUNDRY & FURNACE WORKS, DEPT. "A" Des Moines, Ia.

OUR "D SERIES" FURNACE



Is a splendid heater. It is of all cast construction and practically indestructible. Is a quick worker and possesses the very best features of furnaces of this type.

Note the all cast radiator which affords a wonderful amount of radiating surface.

Big Fire Pot, big ash pit, big combination feed door, big radiating surface.

A perfect worker. Economical, reliable, durable, prompt.

For an all around excellent heating furnace there is none better than our "D Series." Made with either a Drop Front or Revolving Grate, which are interchangeable.

Made in five numbers — 150, 250 350, 450 and 550.

Get Our Catalogue

The XXth Century Heating & Ventilating Co.

Manufacturers of the Original and Only Genuine Line of XXth Century Heaters

AKRON, OHIO

A Burning Question

Is solved after investigating the superior features embodied in **Peoria Lexington Steel Ranges.**

In producing this line we employ only skilled workmen, spare no expense and add all improvements that have proven a success under test.

Dealers in all sections, after an inspection of **Peoria Lexington Steel Ranges** have unanimously declared that they have **"More Points of General Merit than any Steel Range made."**

If you want a line that brings a legitimate profit, and eliminates all dissatisfaction upon the part of purchasers, carry in stock **Peoria Lexington Steel Ranges.**

We've just issued printed matter explaining the many unique features of our goods; a postal brings it. **Write to-day.**

Culter & Proctor Stove Company

Hamilton and Water Streets, PEORIA, ILL.

A Strong Selling Combination

When you consider the quality of materials we use and the quality of finish we produce in the manufacture of

Champion Steel Ranges

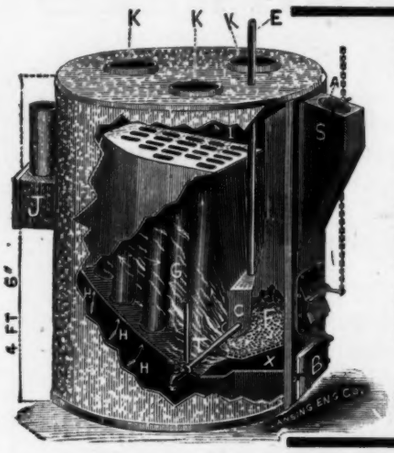
You will readily see what a strong selling combination we offer you. By selling the *Champion Steel Range*

You Can Successfully

overcome the cut-price, cut-quality kinds of competition and make a good profit too. Your interest in our catalog is sure to be of money making benefit to you. Send for it.

Champion Steel Range Co.,

CLEVELAND, OHIO.



The Garner Smokeless Soft Coal Heater

burns soft coal without soot. No smoke nor gas in the house, nor soot in the chimney. The most powerful and economical furnace known. Operates on scientific principles. Made in 3 sizes. Heats with hot air only, or in combination with hot water. Will heat more air with less expense than any other heating device on the market. A magazine feed that gives the steadiest heat. The first one ordered by any responsible dealer may be returned to us in 30 days, if not as represented.

Write for Circulars and Prices. Agents Wanted Everywhere.

THE GARNER HEATING CO., Lansing, Mich.

We Make It!

The BEST Air Drying Iron Enamel Made.

Try a 1-Dozen Case From Your Jobber

Nickel Plate Stove Polish Co.,

CHICAGO.

Large 10 oz. Can.

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The American Artisan and Hardware Record

69 Dearborn Street, CHICAGO

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TOWN .....

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IT'S PROFIT YOU'RE AFTER

Would you refuse to increase your profit without taking any chances? CERTAINLY NOT.

Then accept the exclusive agency proposition offered for

"MUELLER" FURNACES

A line of heaters well known wherever furnaces are sold.

A heater that stands in a class of its own—unequalled for Power, Durability, Economy.

It is out of the competition class.

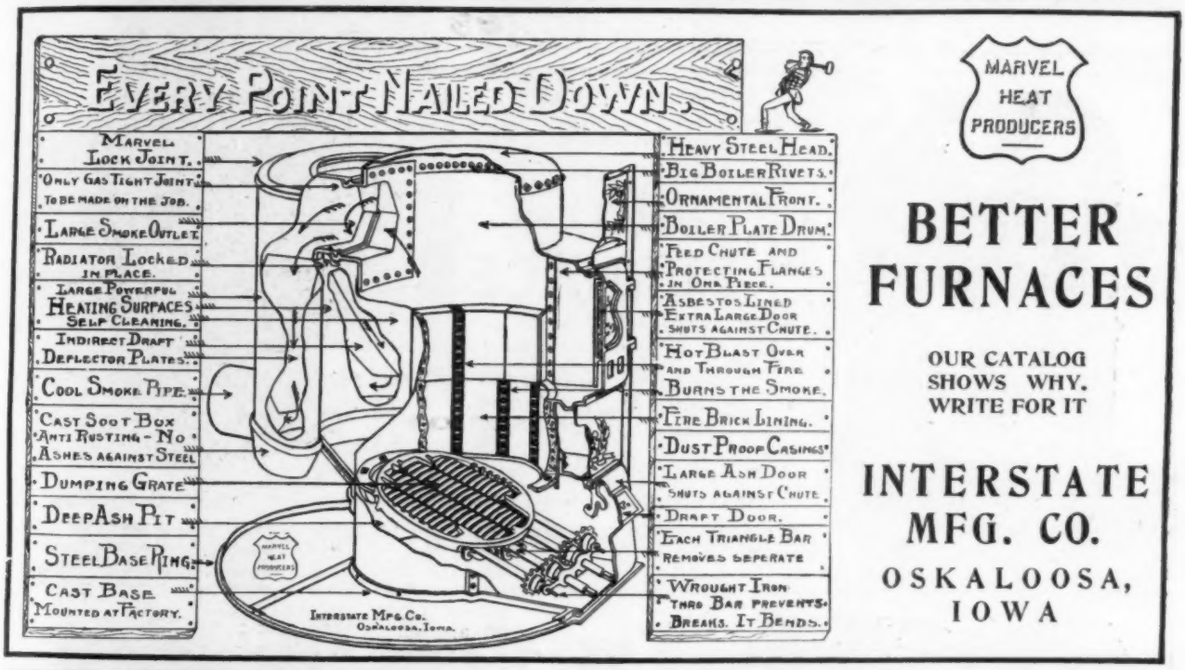
Easier sales, and at a much greater profit than can be made on competition heaters.

Result—INCREASED SALES and INCREASED PROFITS —for you.

Get in line—write NOW for the Agency.

L. J. Mueller Furnace Company

Established 1857 **191 Reed Street, MILWAUKEE, WIS.**



MARVEL HEAT PRODUCERS

BETTER FURNACES

OUR CATALOG SHOWS WHY. WRITE FOR IT

INTERSTATE MFG. CO.

OSKALOOSA, IOWA

"BLUE BOOK" CREDITS

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This Agency issues as complete and reliable book of credit ratings to this special branch of trade as has ever been published, containing about 400,000 rated names of wholesalers, retailers and manufacturers, covering the trade thoroughly. The ratings are conservative and very reliable. The *paying record* is based upon *ledger experience* of credit men everywhere.

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157 Federal Street. BOSTON, MASS.

GILT EDGE BADGER FURNACE

A High Grade Furnace Made in Four Numbers

FOR HARD COAL

A popular furnace with special features distinctly its own, which make it a desirable heater in every respect.

No small ash pit doors in this furnace; no one-piece fire pot to crack as soon as the heat strikes it; and none of the undesirable features of most furnaces of this class.

But there is—**A solid base plate. A large and roomy ash pit. A heavy sectional fire pot and a large ash pit door. Also other convenient and essential features.**

Sells at a moderate price and is made to meet the requirements of those desiring a hard coal burner exclusively.

WRITE FOR CATALOG

R. J. Schwab & Sons Co., Milwaukee, Wis.

ANY SIZE . ANY STYLE

But Only One Quality—THE BEST

THAT IS WHY THE

FLORAL CITY FURNACES

have occupied the proud position of leaders in furnace construction for years.

For **durability, economy, power** and **satisfactory service,** this line is without an equal, and as long as quality is considered, it is sure to retain its place at the head.

Write For Our Latest Catalogue.

MONROE FOUNDRY & FURNACE CO., MONROE, MICHIGAN.

The Hero Furnace

For any kind of Fuel

Showing Smith's Cleanable Water Heater

Cast or Steel Radiator.

Large Double Feed Doors.

Independent Grate Bars.

Everything an up-to-date furnace should have.

Catalog tells all about it, also about our

New Hero Boilers

CHAS. SMITH COMPANY

101 East Lake Street, CHICAGO, ILL.

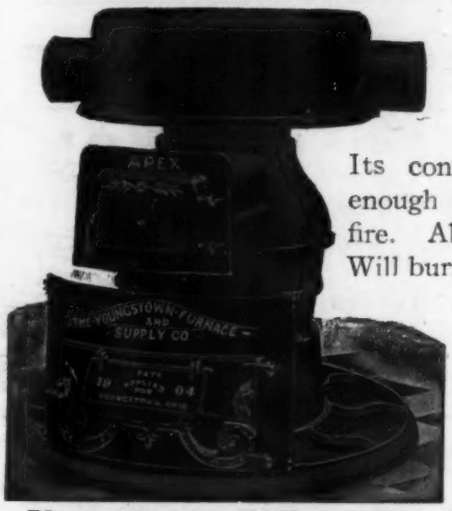
Write for Circulars and Terms

The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators. Satisfaction guaranteed. Agents wanted.

IDEAL EPWORTH ACETYLENE CO., JOHNSTOWN, PA. (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.) WATERLOO, IOWA

The APEX Warm Air Furnace



is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

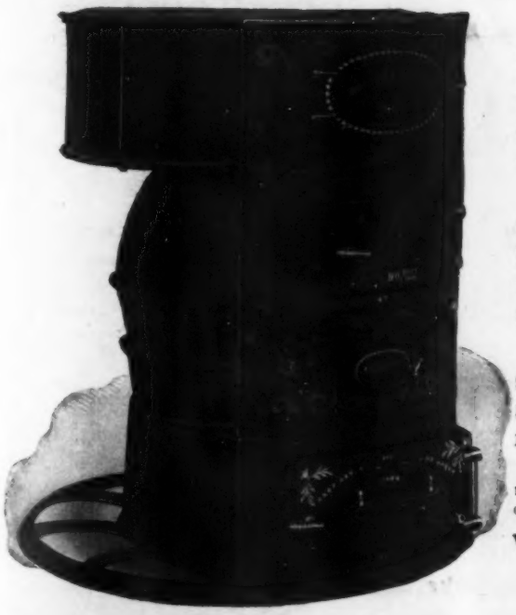
Write Today for Catalogue

Youngstown Furnace & Supply Co.

Chicago Office, 211-213 Lake St. Youngstown, Ohio

Rood & McIntyre, Kansas City, Mo., Southwestern Distributors

One Quality—THE BEST



The practical improvements embodied in our furnaces have made ours the foremost line on the market.

For simplicity of Construction, Durability and Power they are without an equal.

Made in every style, for every fuel, and of the Very Best materials.

Write to-day for printed matter and prices of our complete line.

Walter S. Rait & Co.

211-213 Lake Street
Chicago, Ill.

Economy, Cleanliness and Durability All Combined in the

Moncrief

Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

825-29 Long Avenue, N. W.
CLEVELAND, O.

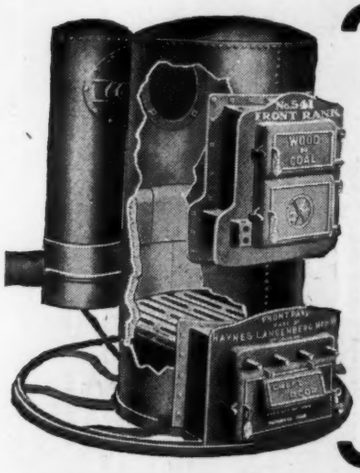
Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

100 Tinners' Patterns

Complete for ... $1.00

Sent Postpaid on Receipt of Price.

DANIEL STERN, 69 Dearborn St., CHICAGO.



A Furnace That's Different!

You know as well as we do that almost all furnaces are alike in construction—and that your competitor can quote just as low a price as you.

With this FRONT RANK Furnace you can go after a prospective customer with a line of argument that is entirely different.

The FRONT RANK is made of heavy sheet armor plate, riveted like a boiler. It can't bulge apart, and it can't leak gas.

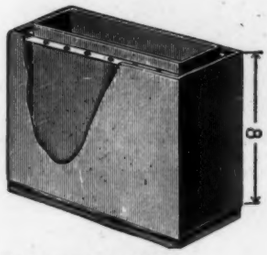
There are no "cup joints" in which the cement can shrivel up and allow gas to escape.

The FRONT RANK Furnace offers a mighty fine opportunity to one good dealer in each town.

Do you want our proposition?

HAYNES-LANGENBERG MFG. COMPANY

4045-57 Forest Park Blvd., ST. LOUIS



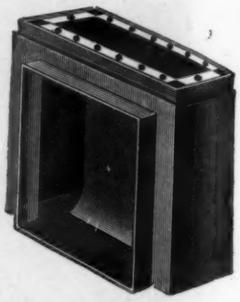
The MICHIGAN SAFETY FURNACE PIPE COMPANY

Corner Brooklyn and Abbott Streets,

DETROIT, MICHIGAN.

The STIFFEST and BEST Machine-made Pipe on the Market.

The only Sectional Furnace Pipe made in which the Inner Walls Form the Cross Walls.



No Wings to Pull Out. Write For Catalog. **No Cleats to Bend.**

Our Large Factory Insures Prompt Delivery.

We are not Connected with any Combination. Do not get us Confused with Other Manufacturers.

Improved HANDY Furnace

- - - PIPE - - -

The Safest, Strongest and Most Perfect Furnace Pipe Made

PERFECT SALES
To the Dealer

Handy pipe has none of the drawbacks of ordinary pipe—it's different.

It can be installed quicker than any other make and when put up, it "stays put"—no complaints, no profitless repairs. It has a 1¾ inch lap. One end is ⅜ inch larger than the other. It has the longest slip made.

Our illustrated catalog explains it. Write for it.

PERFECT SERVICE
To the Purchaser

Perfect ventilation with safety, plus a saving in fuel consumption are what the purchaser most desires in furnace pipe. You can give it to him in the

IMPROVED HANDY PIPE

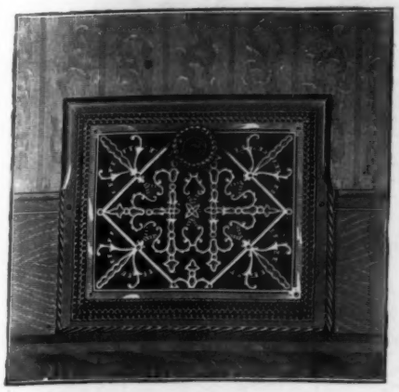
It isn't just "plain pipe."

HANDY Pipe has a number of talking points that make sales easy.

WRITE FOR THEM

Large Stock Always on Hand. All Orders Large or Small Receive Prompt Shipment

F. MEYER & BRO. CO., Peoria, Ill.



Schwab Side Wall Register

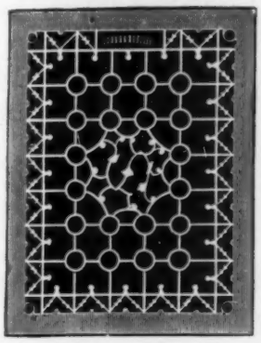
A factor in the Modern Method of heating a room which is a great improvement on the old fashioned floor register.

Schwab's Side Wall Registers are the Neatest in Design of Any on the Market

NOISELESS IN OPERATION. BEST IN CONSTRUCTION

In fact this is in all respects the one perfect side wall register. Write today for illustrated and descriptive catalog.

R. J. SCHWAB & SONS CO., MILWAUKEE, WISCONSIN



REGISTERS

NOT IN THE ASSOCIATION. OUR DISCOUNT 80 and 5%.

MAKERS OF ALL CAST WARM AIR REGISTERS, neat in design, and superior in finish, interchangeable with all first-class makes, and will wear a life-time.
Why buy the so-called Semi-Steel or Stamped Register? They are only imitations.
We are the largest makers of registers in the country. Our own foundry with molding capacity of 200 molders.
Get the Association's discount and compare it with ours. You will see how much we can save you.
We carry a large stock insuring prompt shipment.

STANDARD REGISTER COMPANY

Register Dept., Standard Foundry & Mfg. Co., CLEVELAND, OHIO

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NO BOOKS EXCHANGED

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GRAY'S PERFECT ELBOW PATTERNS.

On heavy blue print paper. From one inch to twenty inches; price $1.50, prepaid. From twenty inches to forty inches, price $1.50, prepaid. From one inch to forty inches, made in 2, 3, 4, 5, 6 7 and 8 pieces with 160 patterns and angle chart showing all angles and degrees of same gotten from 160 patterns, price $3.00, prepaid.

GRAY'S PERFECT SKYLIGHT PATTERNS.

For single pitch, gable and hip skylights. Contains 6 to 8 and 10-inch ventilator patterns and skylight chart, giving the length to cut hip and rafter bars for any size skylight up to 24 feet wide, for ⅓ pitch skylights. Full set of patterns and charts. Price, $3.50, prepaid.

TIN, SHEET IRON AND COPPER PLATE WORK.

This is a work of the greatest value to all who work in sheet metal. It describes the method of laying out nearly everything which the metal worker will be called upon to make. Joints, elbows, and all kinds of kitchen utensils are fully described. The work is supplemented by rules for mensuration and hundreds of valuable receipts. By L. J. Blinn. This book contains 296 pages with 169 illustrations, bound in cloth. Price, $2.50.

TINNERS' HELPER AND PATTERN BOOK.

By H. K. Vosburgh. Rules, diagrams, tables, 123 pp, 53 figures. Price, $1.00.

PATTERN-MAKERS' HANDYBOOK.

A valuable work for the beginner. It is thoroughly practical and has a deservedly large sale. By P. N. Hasluck. Price 50c; 50c edition is paper.

THE CORNICE WORK MANUAL

Is a 240-page book, illustrated with 194 engravings. It is thoroughly indexed and attractively gotten up, with substantial red cloth covers, embossed in gold. Chapters treat of The Cutters' Bench, Drawing Tools and Angles, Cutters' Tools, The Entabulature, The Reading of Drawings, The Measuring of Cornices, Estimating, Right Angle Mitre Patterns, Bracket Patterns for Panel Sections, Right Angle Return Mitre Patterns, Patterns for a Pediment and Their Development, Patterns for a Segmental Section of a Pediment. Details and Patterns for a Finial, Bracings and Fastenings of Cornices to Buildings, Staging and Scaffolding for Cornice Work, Ornament Stamping Machine, The Management of Ropes and Hoisting Tackle, Plan and Details of a Gable and Horizontal Cornice, Detail of Slating and Slaters' Tools, Details for Horizontal and Raking Mitre Patterns, and the development of Details and Patterns of the Turrets. Price, $3.50.

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A 250-page book, containing over 200 illustrations. By Joe K. Little. This book gives several methods for developing some of the most difficult and complicated patterns. It also devotes considerable attention to patterns of irregular shape and unequal taper. The laying off of patterns by triangulation is shown at length. This book is eminently practical and is recognized as the paramount practical authority in its chosen field. Price, $3.50 per copy.

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ASK FOR CATALOG No. 36A

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

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CHICAGO, APRIL 18, 1908.

In its customary order and with customary regularity our late lamented panic has set our ever-wise Congress to work upon the problem of doing things with the currency to the end of guarding against the possibility of future recurrences of calamities of like nature. Both of our national law making bodies have been shifting and shuffling this proposition tver since the present Congress met. It occurs just now that some of the best real banking minds of the country have been drawn into the controversy and that these practical minds have torn into ribbons the propositions of the congressional financiers. What will be evolved from the present mess it is hard to tell, but the lesson has been made quite plain that matters of this nature are the more readily and more practically solvable by practical banking men than by miscellaneous aggregations of legislators of purely political accomplishments.

Building Conditions.

As influencing the hardware trade to an important extent building operations in various sections and throughout the country generally are naturally watched carefully in all seasons and many of the important hardware manufacturing industries are guided largely by what is present or prospective in building matters as evidenced by good statistical authority.

From what is available relating to building operations of the present period it is learned that building for March in the principal cities of the United States was almost as active as it was in the corresponding month a year ago, but there was a falling off in volume. Permits were taken out in forty-six cities for the construction of 14,037 buildings involving a total estimated cost of $34,004,093, against 14,127 buildings, at a total cost of $57,338,344 for the same month a year ago, a decrease of 90 buildings and $23,334,251, or 40 per cent. The significant part of the month's operations is that Chicago still leads the cities of its class, permits having been taken out in that city for 1,104 buildings, involving an estimated cost of $4,829,300, against 1,083 buildings, aggregating in cost $5,906,400, for the same month a year ago, an increase of 21 buildings and a decrease of $1,077,100, or 18 per cent.

Only fifteen out of the forty-six cities show increases and in this the West fares better than any section of the country. St Joseph, which has not figured very extensively heretofore, has an increase of 119 per cent; Terre Haute, 62; Indianapolis, 53; Spokane, 33; Portland and Denver, each 34; Paterson, N. J., 28; Baltimore, 16; Chattanooga, 15; Louisville 11; Kansas City, 12; San Antonio, Texas, and Lincoln, Neb., each 4; Milwaukee, 2, and New Orleans, 402 per cent.

In thirty-one cities there were decreases, the most notable that in New York, including Manhattan and the Bronx, of 72 per cent. Brooklyn and Philadelphia had a heavy falling off, the former 64 per cent and the latter 29. Pittsburg and Cleveland, 49 and 60 per cent, respectively; St. Louis, 33; Detroit, 55; Buffalo, 48; Cincinnati, 35; Minneapolis, 39; St. Paul, 46; Omaha, 35; Duluth, 44; Toledo and Birmingham, 65 each; Worcester, 67; Topeka, 49; and Mobile, 64.

The decreases in most instances are found in a list of cities in which building has been active for a considerable period. It is not only that building has been active, but business had attained a high water mark, and it made new construction necessary in order to keep pace with the growth of these cities commercially and industrially. They are now enjoying a temporary let-up. No one who is familiar with this group of cities and the enterprise of the people need think that any one of them will undergo a long period of depression. In most of them much improvement is already visible, and it will not be long until they will be building upon just as great a scale as ever.

With the opening of spring there are indications of a revival. Building which has been in contemplation for some time will proceed, and many who were waiting a period of less activity and lower prices will now go ahead with the construction of buildings which they have had under consideration for a long time. The situation as it is in Chicago applies to many other localities. The largest number of permits for buildings ever taken out during the first quarter of the year were granted in Chicago during the three months just closed. This is a remarkable illustration of recuperative power.

While the showing may be considered fairly exact and while it comes from the best known sources of building information it is possible that its aggregates and comparisons may not fully express the entire status of building operations of the country for the reason that it deals with large city interests. There is, however, known to be unusual building activity particularly in the west in towns and smaller cities and in farming communities of which the report makes no account. We learn that in these communities the recent money disturbance has had the effect of turning a great deal of ready money into safe realty and building operations and while it is not likely that the increases in building outside of the large cities will

overcome the losses shown in the city statistics they will go quite a ways in reducing the percentages of total decreases of the volume of building operations shown herein. In addition to this feature there are altogether encouraging symptoms in the rapid gain in building matters both in numbers of new buildings projected and in the aggregate volume thereof in cost during the first half of the month of April.

These building figures may be regarded as of vital concern not only to makers and traders in hardware and sheet metals which enter to so great an extent in all building operations, but they should claim the interest of heating plant producers and particularly that of the manufacturers of warm air furnaces, especially in the western and middle sections of the country where the evidence of home building in towns and upon farms is so prominent.

Somebody will, of course, supply the heating requirements, and naturally it behooves our active makers of furnaces to be on the alert to the end of being prominent among the "somebodies" who will figure prominently in this work.

The Employers Liability Law.

On April 9 the United States Senate passed what is known as the Sterling Employers' Liability bill in the same form as it came up from the house following its passage by that body by a vote of 300 to 1. This measure is in the nature of an amended re-enactment of the bill of the same import, which became a law about two years ago, but which was defective in that its provisions went beyond the jurisdiction of the government for the reason that it fixed a provision of liability which the United States Supreme court declared unconstitutional in December last for the reason that its action was not confined to interstate traffic over which alone the government can claim jurisdiction in railway matters. In the new law, however, this provision is strongly incorporated and it is believed the law which now awaits the president's official sanction to make it effective is clearly constitutional in all its provisions as the law provides that railroads shall become responsible while engaged in interstate commerce only. The law applies to railroads and interurban lines doing interstate traffic and to street railways in the territories and in the District of Columbia. In the framing and enactment of the new law there have been kept in sight intended departures from the old English common law theories and in this particular there is a distinctly notable provision which sweeps aside and disregards the old established legal theory of contributory negligence as a bar to action for damages.

The new act is a departure from other of the old common law principles of relation between master and man, and yet after all it is but little more than an application to the federal government of principles which have been more or less firmly established by many of the progressive states. The new law provides that a jury shall diminish the damage in proportion to the amount of negligence directly attributable to the employe.

It also provides that an employe assumes no risk by reason of violation by employer of statutes enacted for his safety, but makes such violation negligence on the part of the employer. It renders void any contract, rule, or agreement by which a common carrier seeks to exempt itself from liability. It provides that no action shall be maintained unless begun within two years from the date of accident. It includes receivers of railroads under the term "common carrier," and it provides that nothing in the new law shall limit the duty or liability of common carriers or impair the rights of their employes under previous acts on the same subject.

The new law was necessitated to modify a principle which grew up in England, where it was first enunciated in 1837, and where it became part of the common law of that kingdom. It was held in our courts as a part of the general common law, although it manifestly grew out of class relations in Great Britain which really do not exist here. Whether it was justified in the first place, it is quite certain that modern conditions of employment have rendered necessary the repeal by statute of what is known as the "fellow servant" principle of the English common law.

This theory was that an employer was not responsible for damages when the injury was caused by the negligence of another employe. The theory of the law was that if two men were working, it might be, side by side it was the duty of each to guard himself against the negligence of the other, or to stop work and notify his employer. It was assumed that the employer could not watch all of his men and that they must assume liability for injury they did to each other. That was all well many years ago when people worked in small shops, were acquainted with the habits of one another, and watched them at their work. It did not do at all in large corporations, where one employe was liable to death or injury as result of the negligence of another who might be far removed from him and whom he probably never knew or saw.

The change in industrial conditions was such that England itself abolished the "fellow servant" theory, so far as it was applied to railroads, twenty years ago.

Under the new law a railroad corporation while engaged in business between states or engaged in any business in federal possession becomes liable for injury to an employe where there is any negligence on its own part or on the part of any of its employes. The negligence is the only thing to be proved to entitle the employe to recover damages. The new law while much limited in its scope as compared with the law enacted two years ago is nevertheless sound and apparently unassailable and with the present conditions of interstate conditions of railway traffic its provisions are broad enough to provide a measure of protection to railway employes that has long been deemed an altogether just consideration.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

Every once in a while I hit upon a query that seems a good one even if it hasn't the freshness that makes a real hit with me, and when I get hold of one that seems an unguessable proposition I take a long chance on it and "line her out."

* * *

A week ago I took a chance on a problem that had

whiskers on it, but as your and my grand-dads and their long-forgotten progenitors had guessed away at it and quit the proposition, it looked good and safe to me, so I framed it up and used it.

* * *

The problem was this: "What becomes of all the pins?" I framed it up good and plenty, with embellishments of the millions upon millions that are made each day and the statistical stage setting of eighty odd millions of pins that are lost and vanish daily in Europe alone, and I wasn't looking for answers, for I thought all this would "hold 'em for a while," but it didn't, for about as soon as the mails could bring it a reply came from a valiant Kentucky gentleman, a Louisvillian, in the person of Mr. Ed. Heartick, who is connected with the Master Sheet Metal Workers' Association of Louisville, not only delivered the goods but asked me to "hand him a hard one."

* * *

My esteemed friend, Ed. Heartick's solution is thus: "'What becomes of the pins?' This problem is easy. They fall to the ground and by the process of evolution they become Terra-pins." Is Ed. all right? Well, for me, yes! Good and plenty!

* * *

One of Chicago's brilliant advertising haberdashers is not only successful in a business way, but he may be also classed as a genius along the lines of modern progressive advertisers. The latest of his achievements that has reached me is a huge envelope enclosing an excellent single black sock to which my attention is invited by a bright folder, which invites me to examine the sock and come over and put up the cash for its mate. Not a bad scheme, is it? for it puts me in a position where in order to utilize this excellent bit of hosiery I must cut off one of my legs, buy the other sock or find someone else who received its mate and shake dice with him for the complete works. It's a clever bit of advertising work all the same and it makes a hit with me.

* * *

Well, it's getting along into the bright days again, and soon the "good old summer time" will be with us again with its boats, and bats, and parks, and all these good old summer doings that make us feel more like woods and streams and vacations than like any kind of work or irksome confinement.

* * *

The kind of days when the office boy and the kind-hearted employer lock horns in little summer dialogues something after this manner:

"What's the matter with you, Jimmie? Didn't you get enough sleep last night?"

"I feel kinda sick, sir. I wasn't a-sleepin'."

"That's rather unusual. A somnolent condition seems to be normal with you. Come over here and let me see you. Hm! You look rather flushed. Let me see your tongue. Hah! Quite red. This may be serious, Jimmie."

And the office boy shuffled his feet uneasily while his eyes wandered about the room.

"There's a good deal of grip about. Do you think that you have got the grip?"

"I dunno, sir."

"Because if you have, the very best thing you can do is to remain quietly in a warm, even temperature. I think the office is just about right for you. Perhaps I could arrange it so that you could sleep here tonight and send word home to your mother so she would not be worried about you."

"I don't think it's the grip, sir."

"Where do you feel sick?"

"Kinda all over, sir."

"That looks like a complication. It might be a cardiac affection, with a touch of laryngitis and a sympathetic inflammation of the medulla oblongata. Possibly there's a derangement of the epigastric nerve. I don't think it would be wise to neglect this. Have you got shooting pains in the lumbar region?"

"I don't think so, sir."

"Any buzzing in the ears?"

"No, sir."

"It's a curious case. No buzzing in the ears? Well! No spots floating before your eyes, either?"

"No, sir."

"You think your eyes are all right—your sight, I mean? You think you could distinguish moving objects at a distance?"

"I guess so, sir."

"And your lungs? You seem a little husky, but that might be bronchial. Do you think your lungs are so that you could yell at the top of your voice for about three hours at a stretch? Supposing you were looking at something that made you want to holler, do you think you could manage it without serious pain?"

"Maybe. But I feel sick this afternoon."

"I'll telephone for an ambulance at once. Which hospital do you prefer, or have you any particular preference?"

"I don't want to go to no hospital."

"What do you want to do?"

"I wanta go home."

"You want your mother to care for you, of course. Do you know of any bright, neat, careful, industrious boy whom you would care to recommend to fill your place?"

"I think I'll be well again by to-morrow, sir. If I can jest lie down this afternoon——"

"Well, I guess you are not well enough to work today, but tell me, where is the game going to be this afternoon, Jimmie?"

* * *

Somebody sent this touching little thing to me by mail recently. There was no name nor anything with it to identify the sender by, but I'm wondering what they know about such things in the town from whence it came? It is this:

Last night I held a little hand,
So dainty and so neat,
I thought my heart would burst with joy,
So wildly did it beat.
No other hand into my heart
Can so great solace bring
For the hand I held last evening,
Which was four aces and a king.

News Siftings

A report from Paducah, Ky., conveys the information that the plant of the Southern Stove Company, at Paducah, was injured materially by fire on April 7.

The "Just Right Light & Furnace Company" of Wakarusa, Ind., has been incorporated with a capital stock of $10,000. It is the purpose of the company to manufacture gasolene lighting devices and also warm air furnaces.

Mr. J. E. Evans, for the past twenty years the Chicago representative of The S. Obermayer Co., was elected alderman at the last election held in that city. This is a signal honor bestowed upon Mr. Evans and his numerous friends heartily congratulate him.

On April 13 the Lincoln Stove & Range Co., of Fremont, O., locked out about 75 of its molders. Officials of the company state that they caused the lockout for the purpose of taking an inventory. The molders claim that it was caused for the reason that they are organizing to join the molders' union.

A series of a dozen envelope size blotters for desk use is provided by the American Stove Repair Works, of 186-188 West Seventh street, St. Paul, Minn. Each of the twelve blotters carries a splendidly printed colored picture and each of these relates to one of twelve seasonable periods of the year. Each as a matter of course carries the company's advertising card, relating to stove and furnace repairs. The group is a nice one and the blotters are good ones from the point of view of utility and service.

In a communication from the Magee Furnace Company, of Boston, Mass., whose extensive stove and furnace manufacturing plant is located in Chelsea, Mass., a division of the city of Boston, is as follows:

"As the press reports of the awful conflagration at Chelsea might possibly mislead and convey an erroneous impression, we wish to say to our friends and the public, that our workshops and foundries very fortunately escaped the flames, although by a very narrow margin, and we are today in perfect condition to answer any and all demands upon us."

Yours very sincerely,

Boston, April 13, 1908. MAGEE FURNACE CO.

The U. S. Stove Repair Company, of 13-15 Third street, South, Minneapolis, Minn., provides its patrons with very convenient books of blank stove repair order forms with reserve stub provisions. The order forms include in print in numerical form, lists of such repairs or such goods as are usually required and a portion of the blank is given to interrogatory matter relating to conditions of the order to be made. Stove dealers will find this series of blanks altogether applicable to the ordering of repairs and a very great convenience in the way of uniformity and copy retention possibility.

The Germer Stove Company, stove manufacturers of Erie, Pa., with a view to enlarging its manufacturing capacity has bought in the large building at the northwest corner of Sixteenth and Parade streets in Erie, formerly occupied by the American Malting Company. It is stated as the intention of the Germer company to double its present stove manufacturing capacity. Possession of the newly acquired property has already been taken by the company. The newly acquired structure which is an altogether substantial one is to be remodeled and put into the very best possible condition for use in the manufacture of stoves by the company.

Secretary T. J. Hogan of the National Association of Stove Manufacturers, has issued an announcement under date of April 8, in which is made known the fact that the thirty-seventh annual convention of the National Association of Stove Manufacturers will be held in New York City at the Hotel Astor on Wednesday, May 13, 1908. A feature of the announcement is the statement that the meeting will be one of unusual importance. Topics of particular interest to the stove fraternity will be discussed in the meeting and efforts are being made by the executive officers to provide in this an interesting, instructive and profitable meeting. The announcement treats of the credential features of the meeting, and also the transportation provisions that have been made, and the matter of hotel accommodatons which have been secured, which provisions are largely at the disposal of the association's secretary as relates to stove manufactures.

A CONVENIENT GAS COOKING DEVICE.

The trade wonders what becomes of all of the gas cooking stoves of small dimensions of the type shown in the illustration. If it were understood to what a very great extent these articles are produced by the Taylor & Boggis Fdy. Co., of Cleveland, O., the wonder would materially increase. Not because the company devotes all of its time to making this article, because it does not. It is a large concern and in addition to this specialty it produces an extensive line of Builders' hardware and high-grade hardware specialties generally, such for example as oil stoves, furnace lamps, molasses gates, letter boxes, locks, dampers, and what not. But this type of stove is one which is a staple article wherever gas appliances are known, and the really good types of them are very much in demand. The company here referred to produces this stove in a thoroughly excellently equipped manner and for the reason that it is wholly reliable and satisfactory its trade in this specialty has naturally grown enormously. It will be found worth while and altogether profitable to have at hand a copy of the illustrated catalogue and price list of the company not only because of this one item, but because of the many other specialties of hardware manufacture. It may be had upon application by addressing the company as herein indicated. When writing kindly mention THE AMERICAN ARTISAN.

Gas Cooker.

BRILLIANT CINDERELLA.

The Stove & Range Company of Pittsburgh of Pittsburg, Pa., has in the sand a new base burner with which to open up the season of 1908 that is a distinctively attractive one. It is built in five flue

pattern, all of which are radiating flues, three of them being for exterior radiation and two of them being arranged for double heating purposes. The stoves run along excellent lines. Its mica lighting field is very extensive and incurved in its upper sections. The nickel treatment which is applied in the base in wide foot rests, ash pit door, base skirting and entablature full dome and swing cover and vertical corner wings is worked out in intaglioed detail with rich effect and the general surface of the nickel treatment shows in full polish of a very high order. The Brilliant Cinderella is made in three sizes, namely, 13, 14 and 15. The

Brilliant Cinderella.

numbers indicate the fire pot measurements, but in capacity as relates to this stove there is claimed for the pots an equality to one inch stronger measurements as compared with other base burners that are on the market. The illustration of the Brilliant Cinderella Base Burner as shown herewith is a very good representation of it. It is built on liberal lines as to its dimensions and in its mounting the greatest of care is given, the doors, the screw register, the swing top and other like features being carefully ground and perfectly fitted. Other features of the stove are ventilated lift-off nickel, lift-out fire pot, Ransom duplex grate, full sizes, full weights and perfect action. It is expected that the Brilliant Cinderella will give a good account of itself for the year 1908. Catalogue and information as to prices may be had upon application to the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

"SPARKLING GEM" BASE BURNER.

The Toledo Stove & Range Co., of Toledo, O., offers a new hard coal baseburner under the title of "Sparkling Gem." This is a substantial and distinctly excellent type in modern baseburner construction. It runs to correct lines both in its body and in its separate dome formations and it is dressed out in nickel treatment following strictly the order of present demands in this respect, namely, the intaglio treatment of deeply cut-in lines with over-polished plain surfaces. The treatment thus given the nickel decorations is in excellent measures and the general formation of the affixed nickel features is modern and tasteful to a high degree. The body formation of the stove runs to the royal type with large mica fields and in-curved top sections thereto. Brilliant front and side polished nickel reflectors are provided and the dome section carries a contour that widens out well at the corners and is provided with a handsome nickel swing cover. Other features of the nickel ornamentation are in a full base and legs, full ashpit door cover with central screw register, wide and handsome side foot rests, square ashpit top ring and front corner wings in unique griffinated designs. A very handsome urn is used as the finial. The stove is a rich one. It runs to liberal measurements. It is excellently made and excellently mounted and it gives splendid promise of being one of the winners for the year 1908. Splendid, artistically executed pictures of the "Sparkling Gem," together with good descriptive matter and price quotations, may be had by addressing the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

FOUNDRY SUPPLIES.

The S. Obermayer Company of Cincinnati, O., stands in a high position as the producer of foundry supplies of every kind and nature. The company has been engaged in this business for many years and its critical observation of the present and prospective requirements of foundries in all parts of the country, together with a very keen appreciation of the advantages of good business methods, has made its business an entirely successful, popular and necessary one. The company has grown from quite moderate proportions to a commanding position in the trade because of its good business, its complete knowledge of what is right and best in supplies and because of the fairness of its guarantee to satisfy, which means "Your money back if you wish it." There is nothing in the nature of foundry supplies that cannot be had promptly from this source in thoroughly standard qualities. In the growth and expansion of the company's business, which formerly was confined as to its location wholly in Cincinnati, has necessitated the establishment of branch concerns in other centers, therefore at the present time it may be addressed at either Cincinnati, O., Chicago, Ill., or Pittsburgh, Pa., with complete assurance that all wants will be promptly and properly taken care of. Excellent trade literature and a most desirable monthly trade publication relating to foundries, foundry practice and foundry supplies published by the company will be sent upon application.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 32 to 37 inclusive.

The Electric Sad Iron Co., of Hutchinson, Kan., has been incorporated with $30,000 capital stock.

Hirsch & Laube, tinners and cornice manufacturers at Tacoma, Wash., have dissolved partnership. The business will be continued by Mr. I. R. Hirsch.

The capital stock of the Lowell Specialty Company, Lowell, Michigan, manufacturers of sprayers and cream separators, has been increased from $40,000 to $75,000.

The Baumann Hardware Company of Wausau, Wis., has been incorporated. Its capital stock is placed at $25,000. The incorporators are R. Baumann, Henry Seim, Jr., and Anna Bobrinz.

The Andrews-Greis Company has been incorporated to conduct the sheet metal working business at North Pelham, N. Y. The incorporators are Geo. C. Rupers, Harry B. Rothwowitz and Andrew Greis.

It is reported that Mr. E. J. Morgan, who for many years has been a hardware merchant in Cadillac, Michigan, has filed a trust mortgage in behalf of his creditors. Mr. Morgan's liabilities are placed at $19,000; assets $20,000.

The West Virginia Hardware & Supply Dealers' Association in a recent meeting elected J. C. Miller, of Huntington, president; Ernest Howell, of Charleston, vice president, and W. H. Banks, of Huntington, secretary-treasurer.

Lessig Bros., stove dealers of Reading, Pa., have materially enlarged their quarters and now have possession of the entire building at 331 North 9th street, where they will do an extensive stove repair business in the rooms adjoining their display room.

The Dock Square Hardware Company, of Boston, Mass., which for a great many years has been located at No. 5 Dock Square, is said to have outgrown its original holdings and has leased the entire building for its hardware merchandsing purposes.

The McCarty-Kadel Hardware Co., of Rock Falls, Ill., has been awarded the contract for furnishing builders' hardware to the United States government, to be used in the erection of twenty-five new houses along the Canal Feeder and the main line of the Illinois & Mississippi canal.

Mr. Cloyse Lewis, who was formerly connected with the Owosso, Mich., Hardware Company and has also been in the employ of Buhl Sons & Company of Detroit, acting in the capacity of traveling salesman, will open a hardware store on North Shiawassee avenue, Corunna, Michigan, next month.

A new industry has been established in Grand Rapids, Mich., which is known as the Grand Rapids Screen Company. The company will manufacture screen doors and wire screens of various sizes, shapes and conditions. The company will utilize a number of patents upon manufactures of this class, among which is one covering a feature of metal edging and metal framing. The company's headquarters are located at the corner of Louis and Campau streets.

A good booklet by the Pritchard-Strong Company of Rochester, N. Y., relates to window displays, in which the theme is the Prisco lantern and Uncle Obediah, both of which are attractive propositions by the company. The booklet is handsomely illustrated and the window displays are excellent.

Mr. A. D. Crain, who has for many years been in the employ of Heath & Milligan of Chicago, who recently entered into bankruptcy, has associated himself with the Bradley & Vrooman Company of Chicago. Mr. Crain is considered an excellent paint salesman and entirely trustworthy in every way. He will cover the same territory in Michigan as heretofore.

An enlargement is being made in the plant of the Detroit Steel Products Company of Detroit, Mich., for the purpose of installing machinery for the manufacture of the "Fenestra Rolled Steel" Window Sash, which heretofore has been manufactured in foreign countries, where it has been used to a very considerable extent in fireproof buildings and factories. The Detroit Steel Products Company expects to begin the manufacture of this sash in about three months.

The department of Indian affairs of the Department of the Interior at Washington, D. C., has asked for bids for furnishing the Indian service with lamps, stoves, enameled ware, agricultural implements, paints, oils, glass, tinware and other items. Bids may be filed up to May 7, 1908, upon which date they will be opened. Bids must be made on government blanks. Schedules furnishing necessary information for bidders may be had upon application to the Indian Office, Washington, D. C., and the U. S. Indian Warehouses at New York City, Chicago, St. Louis, Mo., and Omaha, Nebr.

An interesting letter from Mr. G. B. Calhoun, of Huntsville, Mo., calls attention to the publication in THE AMERICAN ARTISAN of the address by Mr. E. C. Simmons, of Simmons Hardware Co., delivered before the National Retail Hardware Association in convention in St. Louis, on March 24. The comments of Mr. Calhoun, whose personal acquaintance with Mr. Simmons has been of 42 years' duration, are most complimentary to Mr. Simmons himself and also as relate to the very able address herein referred to. In its conclusion the letter states, concerning the address, that the writer "feels sure that every expression thereof is from an honest heart."

A generous act is recorded for David Tilton of Hartford, Conn. Mr. Tilton, who for thirty-one years has had an active connection with the Atlantic Screw Works of Hartford, Conn., and who has been sole owner and manager of the entire business for more than twenty years past, has presented the entire plant and business to his son, Fred N. Tilton, as an absolute free gift for the son to own and manage and care for in his own sole right and possession. The Atlantic Screw Works was originally established in 1875. In 1887, Mr. David Tilton succeeded to the sole proprietorship, since which time the business and the plant have been very materially improved in structures and equipments

from time to time. Mr. Fred N. Tilton who now succeeds to the business has been connected therewith for many years, and through experience and natural ability he is well qualified to take over and fully care for the very generous gift.

Mr. F. E. Muzzy, vice-president of the J. Stevens Arms and Tool Company, of Chicopee, Falls, Mass., was among the recent visitors at the office of THE AMERICAN ARTISAN. Mr. Muzzy has for several months been sojourning at interesting Pacific coast and Northwestern points with a view to recreation and health renewal, in both of which endeavors he has been successful. Mr. Muzzy was en route eastward, where the activities of business will be resumed.

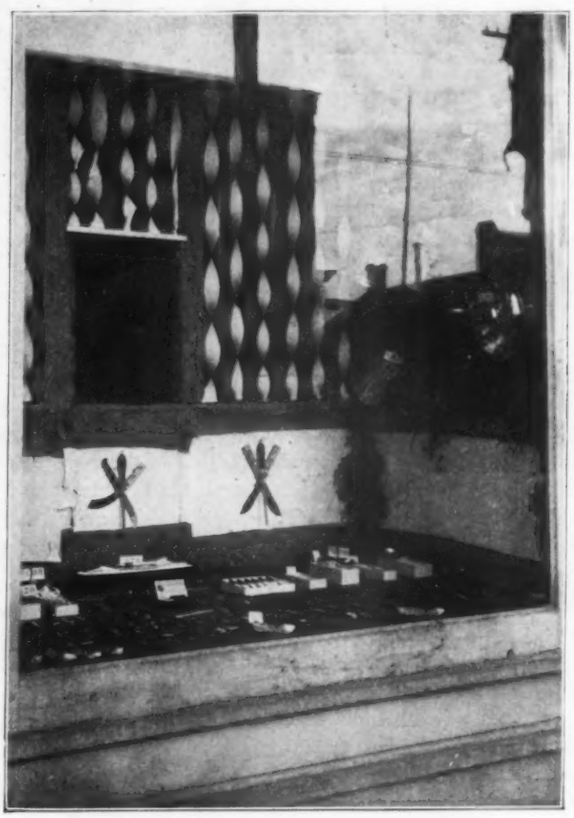
Elmer F. Stebbins and Chas. L. Meach will assume the management of the John W. S. Pierson & Company of Stanton, Mich., which for more than twenty years has been in the charge of Mr. John W. S. Pierson, who, although retiring from active business, will retain an interest in the concern. Both Mr. Stebbins and Mr. Meach are well known and their worth appreciated, the former having been secretary and treasurer of the above firm for many years, the latter having held the position of county clerk for a period of six years. The stock carried by the firm consists of mill supplies, farm implements, carriages, hardware, sash and doors, brick, sewer pipe, etc., etc.

First Vice President E. Walker Duvall, of the Retail Hardware Association of the Carolinas, advises us by letter under date of April 6th of the forthcoming annual meeting of the association at Wrightsville Beach, N. C., and in connection he kindly favors us with a complete copy of the program that is to be carried out at the annual meeting as indicated on July 8, 9 and 10 next. The program is a very good one. Some very excellent papers are provided for and it may be said that some of the very best topics that are provided have been delegated to well chosen personalities in the hardware trade of the Carolinas. It is to be expected that the association will have a highly important and interesting convention.

The spirit of enterprise and activity is shown in the rapidity with which the Barrett Hardware Co. of Joliet, Ill., has readjusted its affairs in a new location following the very disastrous fire which destroyed its large hardware store about two weeks ago. The company is now located in what is known as the Adams building, at the corner of Desplaines and Van Buren streets, a central location in Joliet. It is stated that the company which has taken over the salvage stock from the insurance companies will dispose of this stock completely and push it out of the way to make room for a splendid new stock of hardware, stoves and like goods which has been bought and is already coming in upon the company. The new quarters are excellent in their adaptation to the company's business and the location and lighting of the division in which their shop work will be done are said to be excellent. As a matter of detail it is pleasing to note that the company has already notified patrons whose paid for goods were undelivered at the time of the fire to present their duplicate bills and take the cash for them. In all ways the business affairs of the company in the period succeeding the fire have been well handled.

A HARDWARE WINDOW DISPLAY.

The accompanying illustration is a photographic reproduction of a hardware window display exhibited in the hardware store of G. H. Blattner, of Vermilion, O. It was made up as a display for a holiday season. The background of the window was built up to about two feet high and this was trimmed with white paper for the center and with green paper for the borderings both top and bottom of the white surface. A small opening and a sliding door as shown in the back were put into position so as to gain access to any of the articles in the window should occasion require. From the top of the background vertically to the ceiling, paper ribbons cut to two inches wide were used in their twisted formations in which they are shown. They were fastened each at the top and the bottom



A Vermilion, Ohio, Hardware Window.

and were pulled tightly. These ribbons which were in white and green colors were strung alternately by the colors around the entire interior background of the window. The side walls were trimmed with evergreens, and articles of copper nickeled ware were hung around among the evergreen. This arrangement carried out the color suggestion, but unfortunately this feature does not show to good advantage in the photograph by reason of the reflection of another building across the street, which to a great extent obliterates the arrangement from the photograph. The ground or body part of the window was trimmed in green. Silver knives, forks and spoons, together with shears, razors, pocket knives, carving sets, berry spoons, gravy ladles, nut picks, etc., as shown upon the flooring, comprised the hardware exhibit. This window brought forth the compliments of many of the good

people of Vermilion, O., and it was rated as the best window display in the town.

A NEW HOUSE MAIL BOX.

The Peck-Hamre Manufacturing Co., of Berlin, Wis., is placing on the market a new city mail box of stamped steel construction which is described as an attractive, durable and serviceable house mail box that is well adapted to city trade. The box may be said to fill these requirements altogether perfectly. The manufacturers claim that the box will meet the very large demand which there is for a 25c house box which shall not partake of clumsy and unsightly features. The box is finished in dull black enamel baked on at a high temperature which renders the box practically dust-proof. It is finished both with the newspaper clip in front and without the clip. An office door hole is provided in the back of the box. The manufacturers will be pleased to send catalogue and prices upon application. In writing kindly mention THE AMERICAN ARTISAN.

New House Mail Box.

FRED NEUDORFF'S UNANIMOUS RE-ELECTION.

At the annual meeting of the Retail Merchants' Association of St. Joseph, Mo., on the evening of Thursday, April 9, President Fred Neudorff of the Neudorff Hardware Company, of St. Joseph, Mo., entertained the association with an excellent and highly interesting address, covering the scope of the association's work and relating to vital points in its general affairs. In this address President Neudorff gave new evidence of his masterly abilities along the lines of association affairs and his address in a most comprehensive way covered the scope of the association's operating affairs for the one year's term which it was intended to represent. The president called attention to the great increase in the volume of out-of-town business which has resulted from a systematic rebate transportation arrangement which is a feature of the association's work. He made mention of the flattering success of the organization during its past year's work and in this connection the operative details which stood for the success that had been achieved were taken up serially and handled in detail. The success of Mr. Neudorff's efforts as reflected in the association's present condition apparently made it quite impossible for him to forego a re-election to the presidency of the association—which, by the way, he openly endeavored to do—and as a result of the election he was unanimously chosen to fill the office of president for another year. Mr. Fred Neudorff is a prominent figure in hardware affairs of his state and of the nation. He is one of those merchants who make for success of whatever endeavors he may be interested in and his friends in the hardware trade will not be at all surprised to learn of his having been chosen to succeed himself to the presidency of the Retail Merchants' Association of St. Joseph, Mo.

"NEVER-BREAK" GOODS.

The "Never-Break" line of steel stamped ware that runs in spiders, griddles, kettles, pots, and other articles of kitchen ware has become so popular for the uses for which it is intended that in these days the buyer's mind rarely turns to anything else when goods for like intent are required. They are light, convenient, durable, cleanly and for quick action nothing that is known in the market at all competes with them for the reason that they are so much lighter in their construction than other similar wares used for the same purpose. The "Never-Break" goods are furnished in a very complete assortment that embraces everything of the line needful in kitchen uses. A very good catalogue of the wares may be had upon application to the manufacturers, The Avery Stamping Co., of Cleveland, O. In writing kindly mention THE AMERICAN ARTISAN.

SOLDERENE.

Whatever tends in the direction of economy about the home is always attractive to home people. In most every home the head of the home or someone else connected with it get ideas into their heads that they can mend all their pans and pots and boilers and such things economically and without the trouble of sending them out, and in a good proportion of cases this can be successfully done, and for that reason

any device that will do the soldering is an attractive and salable one. For this purpose there is probably nothing better or more attractive than Solderene, as it is a compact method of soldering and one which appeals to the housekeeper as an awfully good thing, which it is, and therefore it sells.

It mends leaky pans, broken handles, porcelain ware, etc. It fuses at so low a temperature that a candle and a bar of Solderene is all that is needed to make permanent repairs. A bar of Solderene does not cost a whole lot of money, but it returns to the hardware dealer a nice profit on every sale and sells easy enough to be satisfactory. Solderene is offered by the Solderene Company, Dept. M, 55 State street, Boston, Mass. In writing them kindly mention THE AMERICAN ARTISAN.

SCREW AND TACK MERGER.

It is reported that a merger of interests is to be made between the Union Steel Screw Company and the National Screw & Tack Company, both of Cleveland, O. Action has already been taken in a preliminary way by officials and shareholders of the companies and the final determination of the matter is to be brought before all the shareholders of the companies in a meeting which is announced for April 30, 1908. The National Screw & Tack Company is capitalized at $1,000,000

and the Union Steel Screw Company at $524,500. In the merger arrangement the National Screw & Tack Company will arrange to take over the Union Steel Screw Company on a basis of $461,125, which is payable in six per cent preferred stock of the National Screw & Tack Company. By this arrangement the Union Steel Screw Company's stock will be fixed at 85 per cent, with an income of a little over 5 per cent upon the par valuation of present holdings. By the terms of the merger the screw company's entire properties will be taken over by the National Screw & Tack Company.

A LIGHTNING ROD CATALOGUE.

A very good catalogue of lightning rods, ornamental weather vanes, etc., is by Edw. A. Foy & Co., of 409-411 East Eighth street, Cincinnati, O. Messrs. Foy & Co. are manufacturers and wholesalers in the lines indicated. The catalogue is a permanently bound one, of oblong form, with the leaves opening the long way. It contains 64 pages and is nicely printed and handsomely illustrated, much of the illustration being done in copper and silver bronze effects and in the natural printed colors of the articles illustrated. The goods are excellently presented by wonderfully good illustrations which are aided vastly by the natural colorings in which they are worked out. There are many patterns shown in section rods, copper tubes, copper cables, copper rods and other practical devices. Also an unusually great variety of plain and ornamental weather vanes, ornaments, glass balls, points, braces, insulators, fixtures, tools, ladders, and rod setting equipments. The line is a wholly complete and excellent one, as will be readily comprehended by an examination of the very excellent catalogue.

Particular attention is invited to No. 49, a 49-wire solid twist copper cable, which is said to be 98 per cent pure copper and is claimed to be the leading copper cable rod on the market. And reference is also made to No. 8 star copper rod, trolley wire center, an all copper product centered by a solid copper wire. This is a combination cable and section rod which is in much demand. Catalogues may be had upon application. In writing kindly mention THE AMERICAN ARTISAN.

EVOLUTION OF THE FISH HOOK.

The use of fish hooks dates so far back that the records of the earlier history are lost in antiquity. From ancient historic records we learn of its being in common use by the Babylonians and Macedonians; in fact, specimens of the curious implements used in those early days are to be found to-day at the British Museum in London, and in other collections of antiquities in various parts of the world. Before the era of commercially made fish hooks each country supplied its own uses, and in many cases the substances employed in their production were curious. The evolution of this necessary adjunct to the angler's equipment provides a most interesting study. From the hooks of bone, wood, ivory and flint used by our forefathers to the curiously formed specimens of bronze made by the Babylonians is a great advance, but in passing to a later period, when bronze was supplanted by the cumbrous productions of iron and later steel, we have still another advance in the evolution of this indispensable equipment, while to-day we have those beautifully finished specimens of the hook maker's art as only human ingenuity of the present day can produce them.

A FEBRUARY TRADE CUSTOM.

It is the custom of the Gray & Dudley Hardware Co., of Nashville, Tenn., to annually hold Washington's birthday sales covering each month of February. We learn that this event for 1908 proved more successful and more interesting than the corresponding events of any of the previous years. It is the company's practice to announce a series of awards which is provided for completing salesmen upon the succeeding 1st of April in each year. In the arrangement the company divides their salesmen into two classes. Class A includes the salesmen who work the larger towns, and Class B includes the salesmen who work the smaller towns and the country trade. The winner of a first prize in each class is awarded a gold watch fob, the front of which bears in relief an admirably executed bust of George Washington, the second prize winner in each class receives a prize of money in gold. In line of further awards the four prize winners above indicated, together with the six next highest ranking salesmen, constitute what is indicated as the company's Washington Honor Roll, and this Roll of Honor is made conspicuous upon a cover for the company's weekly general letter. In the 1908 distribution of awards, the first prize of Class A was won by A. C. Breast, the second prize in Class A was won by A. W. Kennedy. The first and second prizes in Class B were won by S. P. Shannon and A. M. Shofner, respectively. The six other salesmen who go to complete the Washington Honor Roll in the order of their sales merits are J. T. Powell, E. C. Cunningham, A. E. King, E. P. Harper, T. O. Murray and J. M. Prickett. In addition to these awards the company provides a system of awards in connection with the Washington's birthday sales, which go to retail patrons following a certain line of order of merit relating to their patronage with the house during the months of February. The company finds in this interesting system not only an incentive to salesmen to do good work, but also a distinct opportunity to keep track of the salesmen's work at least during this period of the year.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Grand Junction, Colo.—The Ross Hardware and Supply Company incorporated with a capital stock of $15,000.

Itasca, Ill.—Wm. Bunge has opened a hardware and tinsmith store.

Atoka, Okla.—Atoka Hardware Company incorporated with a capital stock of $10,000.

Lehigh, Tex.—The Lehigh Hardware Company incorporated with a capital stock of $8,000.

Farmer City, Ill.—Harper & Co. have opened a hardware store.

Topeka, Ind.—W. A. Acton has opened a hardware store.

Ellsworth, Wis.—Ellsworth Hardware Company incorporated with a capital stock of $40,000.

West Seneca, N. Y.—John Winegar & Sons incorporated with a capital stock of $12,000.

Birdsboro, Pa.—Focht & Lacey have established themselves in the hardware business.

Carlisle, Ky.—Cotner-Bugg Hardware Company incorporated with a capital stock of $6,000.

Rockford, Ill.—Forest City Hardware Company incorporated with a capital stock of $5,000.

BUSINESS CHANGES.

San Diego, Cal.—The Reed-Wyman Hardware Company has changed its name to the Pierce-Fields Hardware Company.

Waseca, Minn.—C. J. Johnson has purchased the Bailey & Garland stock of hardware.

Rome, Ia.—F. L. Turner has purchased the J. A. Brandel stock of hardware.

Britt, Ia.—M. W. McCarthy has sold his hardware business to Messrs. Benzer and Vincent.

Corwith, Ia.—M. W. McCarthy has also sold his other hardware store to Hugh Mullin, his partner.

Dayton, O.—C. L. V. Reynolds and J. D. Hunter have purchased the hardware store of A. H. Schafer & Co., 1515 West Third street.

Prescott, Ark.—Blake Dalrymple has purchased an interest in the McDaniel Hardware Company.

Manassa, Colo.—E. S. Christensen, William Christensen and A. B. Aydelotte have purchased the Granthan Hardware Company's business.

Batchtown, Ill.—The S. A. White Mercantile Company has purchased J. Earley & Co.'s store of hardware and implements.

Palo Alto, Cal.—George C. Shaw has bought the J. F. Parkinson Company's stock of hardware.

Saranac, Mich.—M. A. Benson has purchased the interest of his sister in the hardware business.

Mellott, Ill.—Joseph S. Henry has purchased the Sam D. Short hardware store.

Rochester, Ind.—J. F. McLean disposed of his interest in the hardware store of McLean & Lowe.

Bellevue, O.—B. D. Wyant has bought the hardware store here.

Bloomington, Ill.—Woizeski & Kelly, hardware dealers, have made a change whereby Mr. Kelly transfers his share of the business to Mr. Woizeski and in the future the store will be known as that of Chas. W. Woizeski.

Chalmers, Ind.—N. B. Bertha has purchased the hardware stock of Frank Grove.

Bronaugh, Kas.—J. J. Doores sold his hardware store to N. Saterlee.

Clinton, Ill.—D. D. Watson & Bro., hardware dealers, have sold out their business.

MISCELLANEOUS.

Peoria, Ill.—The Weyrich hardware store was burglarized.

Sayre, Okla.—The store of the Hullum Hardware Company was burglarized.

Goshen, Ind.—Blough Bros. & Mehl, hardware merchants, were burglarized.

St. Louis, Mo.—C. M. Bulger, hardware dealer, suffered a loss of $1,800 due to fire.

Norris City, Ill.—The hardware store of C. E. Barnes was damaged by fire.

Toledo, O.—The hardware store of H. F. Aufderheide, St. Clair street, was burglarized.

Brooklyn, Wis.—The hardware store and stock of Evans & Asmus was damaged by fire.

Waurika, Okla.—The Chicasha Hardware Company has opened a branch store.

Ivanhoe, Minn.—The S. P. Johnson hardware stock is reported in the hands of a receiver.

OBITUARY.

Wm. J. LaRoche.

Wm. J. LaRoche, well known in hardware circles as president of the Metropolitan Hardware Company, of New York city, died at his home in Brooklyn, N. Y., on April 5. He was born in New York city in 1853 and had been engaged in the hardware business for many years. The Metropolitan Hardware Company, of which he was president, was organized in 1889, and with the reorganization which created it the policy of the company was modernized in a manner that has made it eminently successful. Mr. LaRoche was well and favorably known in club circles and in social and business circles in New York and elsewhere and was highly regarded.

C. G. Newell.

C. G. Newell, who for ten years past occupied the position of city and suburban salesman for the Cribben & Sexton Co., stove manufacturers of Chicago, died at his home at LaGrange, Ill. (a Chicago suburb), on April 11, of appendicitis. He was buried from the First Methodist Episcopal church of LaGrange at 2 p. m. on Monday, April 13. Mr. Newell was well known in local hardware and stove trade circles. He was president of the Citizen Association of LaGrange, Ill. He was born in 1866, hence he was 43 years of age. A wife and two children, Raymond, age 15, and Leonard, age 16, survive him.

Franklin March.

Franklin March, president of The March-Brownback Stove Company, of Pottstown, Pa., died at his home in Parkerford, Pa., on April 14, at 2 p. m. Mr. March was prominent in the affairs of the company. He was also prominent in legal matters as a successful attorney at law. He was a brother of Mr. T. J. March, vice-president of The March-Brownback Stove Company. Mr. March stood high in business and legal circles, in both of which he was highly respected. He was buried from his home in Parkerford on Friday, April 17th.

Wm. K McGuinness.

Wm. K. McGuinness, well known in the heating trade, died at his home in Pittsburg, Pa., on Tuesday, March 31. He had attained the age of 68 years. Mr. McGuinness was a native of Pittsburg, he was a Civil War veteran and at the time of his death was connected with the American Heating & Ventilating Company. He was well known in business circles in Pittsburg. He was a representative member of the Eighth Presbyterian Church of Pittsburg, and he was a member of the Grand Army of the Republic.

Frank H. Chamberlain.

Frank H. Chamberlain, president of the J. D. Smith Foundry Supply Co., of Cleveland, O., and of which company he was also general manager, died following a comparatively brief illness at his home in Cleveland on April 9 at the age of 38 years. Mr. Chamberlain was well known in foundry and hardware circles, in which lines he had many friends.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

In the matter of newspaper advertising for local uses by retail hardware dealers it will be found to be a very prudent measure for the advertiser to keep in very close touch with the movements of his copy after it leaves his hands. No printer should be allowed to go ahead and use his own judgment in matters of this kind. The advertiser who pays the money and whose business is to be advertised should have the last sight at the proof before it is printed and he should never allow it to be printed until it exactly suits him.

W. A. Guenther & Son offer a well planned refrigerator advertisement. The display is attractive in so far as the type display is concerned and the illustration which is of the wood-engraved order is correctly

adapted to coarse newspaper work of this kind. The story about the refrigerator and the invitation connected with it are both well told and made and the range of prices for refrigerators that is quoted is well designed to bring in visitors who are on the lookout for refrigerators. The arrangement of the advertisement is good in a general way, but the printers have spoiled its intended effect by throwing a sloppy rule arrangement around it. This advertisement occupied five inches, double column, in the *Owensboro Inquirer*, of Owensboro, Ky.

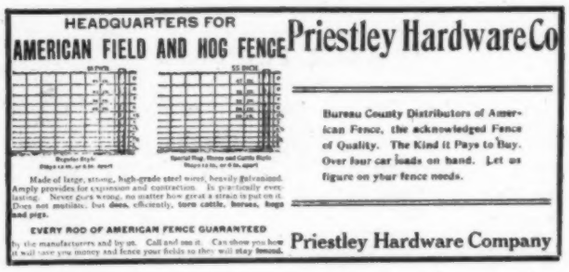
* * *

The advertisement of Haskell Bros., while it was evidently well written by Haskell Bros., has been made to appear ridiculous by the printers who have had the matter in charge. The type selections are not good, possibly this is occasioned by the limited assortment of type owned by the paper which published it. If this is not true the publishers should be ashamed of the advertisement as it appears, as a display of printing work. In the second line the ninth letter is broken and practically useless. The word "material" in this same line is ridiculously mispelled. The first letter in the third line is broken and should never have been allowed to get into print. The border is not only a chestnut as to age, but it is distinctly absurd in its application here and in its top section it is split open and divided most

absurdly. The evidence here is that Haskell Bros. are quite able to prepare a good advertisement and the evidence also is that the printers know very little, if anything, about properly caring for the advertising business of a good customer. This advertisement occupied four inches, double column, in the *Kansas City Gazette*, of Kansas City, Kan.

* * *

The advertisement of the Priestley Hardware Company may be said to be a very excellent one. As indicated this is a wire fence advertisement pure and simple. The arrangement of the advertisement is excellent in all ways, as the purposes of the two fences are each distinctly made known and the description of the manufacture of each is clean, good and proper. The arrangement of the advertisement is consistent and satisfactory. There is just one criticism that will apply to the ad; it is this: The right half of the advertisement has its display type in excellent Devinne. The



left half of the advertisement has its display in gothic. The display of the entire ad should have been seriesed either in gothic or in the Devinne. The mixture really hurts the advertisement. By seriesing the display the ad would have been practically perfect. This advertisement occupied four inches, four columns wide, in the *Bureau County Record* of Princeton, Ill.

Heating and Ventilating

THE FIRE-POT.

The Green Foundry & Furnace Co., Dept. A, of Des Moines, Ia., is conducting a consistent campaign of advertising with Green's Colonial Furnace and Green's Colonial Base Heater Furnace by calling direct attention to the fire-pot that is used in the structures and to the purpose and efficiency thereof. An illustration of this fire-pot is herewith shown. It will be noted that exteriorly it is heavily corrugated. These corrugations are tubular in form and also as will be noted they are slotted vertically interiorly to their entire extent. The purpose of this arrangement is to provide a means by which air may be let in upon the fire at all points of its circumference from beneath to the end of the perfection of the combustion no matter what character of fuel may be used. This

The Fire-Pot.

fire-pot device has proved a very great success not only in aiding combustion in an economical manner but in providing an increased and more highly heated radiating surface and a more thorough preservation of the fire-pot itself than is afforded by the old form. As an economizer of fuel and a utilizer of the soot, smoke and heavy gases that are usually thrown away it has proved very successful and the use of it as an advertising medium in this connection is, we think, highly proper. Detailed information as to the very excellent furnaces to which it is applied as here indicated may be had through good trade literature and catalogues to be had from the company by addressing as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

QUAKER FURNACE.

The Quaker Furnace by the Quaker Mfg. Co. of 40 Dearborn street, Chicago, Ill., has proved to be one of the very successful furnaces of steel construction that has been offered in recent years. The plan of the furnace is an original one and it is not only designed to provide ample and continuous heat, but one of its most important features is in the fact that it is capable of providing a very large volume of heated air almost at once when the fire is lighted. Its economical arrangements have proved to be thoroughly correct and satisfactory under all kinds of tests and its features of cleanliness, economy and serviceability are such as have attracted much attention. The Quaker Furnace is of heavy steel construction laid out in cylindrical form with a heavy crowned sheet dome riveted in. In its planning, provision has been made for heating the entire surface of the structure and its flue system is such as not only secures correct combustion of the fuel but it also tends greatly to the increase of radiating surface. A new illustrated catalogue by the company may be had upon application by addressing as herein indicated. In writing for it kindly mention THE AMERICAN ARTISAN.

MUELLER FURNACES.

The L. J. Mueller Furnace Company, of 191 Reed street, Milwaukee, Wis., requests the trade to which it appeals to "make up its mind now" to handle furnaces on which it can consistently say to customers, "this furnace is in a class of its own, no other heater is made like it and none will compare with it in power, durability and economy." The Mueller All Cast Double Radiator Furnace, it is claimed, permits dealers not only to make this statement but it also prepares them to back it up with the goods.

The Mueller Furnace it is represented, is constructed on practical and scientific principles and is in its action quick, reliable, economical and thoroughly enduring. It has been on the market for a number of years, during which time it has been kept up strictly to the line of modern requirements and has been so thoroughly successful and popular as to have required no changes to be made in its general plan. The agency of the Mueller furnace is said to always bring success. Good literature may be had upon application to the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

The Kellogg-Mackay-Cameron Co., of Chicago, is meeting with excellent success with Touraine, Jr., Steam and Hot Water Boilers. These boilers are made the subject of an interesting advertising folder issued by the company.

The marriage of Mr. Jarrot Prator Dugger and Mrs. Mildred Gayford Bullene is announced. The ceremony was celebrated on April 9, 1908. Mr. Dugger, who in the heating trade with which he is identified as secretary of the Kewanee Boiler Co., is familiarly known as "Prate" for short, is one of the popular exponents of the heating line and his many friends will be pleased to learn of his good fortune as here indicated.

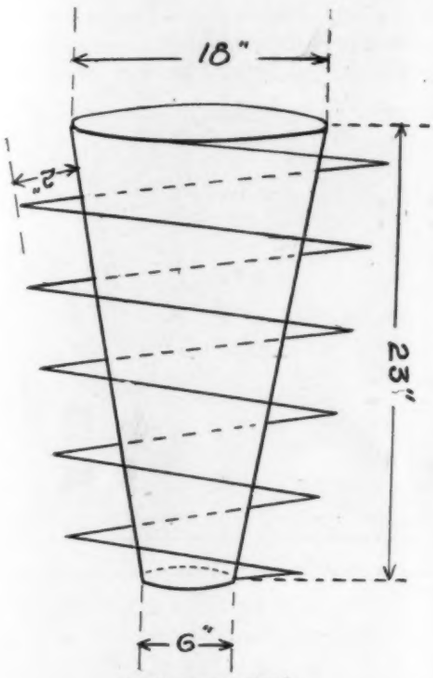
The merchants of a Georgia city are planning an experiment which, if carried into effect, they believe will result in largely increasing their out-of-town trade. The plan is to set Wednesday as a day for special bargains to country people. On this day special preparations will be made for the comfort and entertainment of these people and their railroad fares to and from the city will be paid, provided certain amounts of goods are purchased. The merchants already have two special bargain days——Monday and Saturday. They cater to the city trade on the former and to the trade in the manufacturing sections on Saturdays, the days that the local plants pay off at noon. Half the week, therefore, will be on a "bargain" basis.

Tinshop

A TINNER'S QUESTION.

To The American Artisan:

Will you kindly tell me through your columns how to lay out the patterns for a continuous spiral 2 inches



Continuous Spiral.

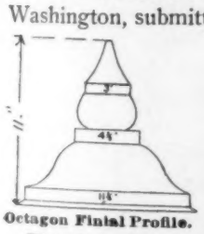
wide and six times around a cone 18 inches in diameter at the large end and 6 inches in diameter at the small end and 23 inches long. What I mean by continuous spiral is that it shall be run similar to the thread on a bolt, but the spiral in this case is to be cut in sections and riveted together. I wish to know how to lay out one section of about once around the cone. I send a sketch herewith showing what I require. This is to be made of 22 galvanized iron.

Respectfully yours,

Lancaster, Pa. E. Z. R.

OCTAGON FINIAL PLANS WANTED.

Under a recent date Mr. Otto Schaal, of Aberdeen, Washington, submitted the accompanying design of an octagon finial to be made in sheet metal, accompanied by a request addressed to accommodating "Tinks," and asking that some of them furnish a pattern development for the finial as here shown in profile.



Octagon Finial Profile.

This is an interesting inquiry concerning which we will be pleased to receive further pattern developments.

"ARMOR-CLAD" PIPE MACHINE.

The "Armor-Clad" Pipe Machine is offered to sheet metal workers by the Armor-Clad Mfg. Co., of Canton, O. This is a convenient hand machine that will make successfully all the standard sizes of conductor pipe, water spouting, tubing, etc., either in round or corrugated patterns of either tin, galvanized iron or copper and will turn out all sizes of stove pipe and smoke pipe up to nine-inch diameter. The operation of the Pipe Machine is exceedingly simple and any sheet metal worker will be able to operate it without difficulty, and in so doing there will be found many opportunities for increases of business along the lines of the products which the machine will readily take care of. The importance of a machine of this character will be understood by practical sheet-metal workers, as it will be seen that it dispenses with the tedious and expensive methods of making short lengths of pipe by hand and soldering them together into long lengths. With this device the workman can make more conductor pipe, water spoutings, tubing, etc., than of any other article made by him. The machines are nicely built; they are reliable workers and are wholly serviceable and durable. Good printed literature relating to them may be had by addressing the company as herein indicated. In writing, kindly mention The American Artisan.

QUICK SHIPPERS.

When a jobbing metal house wishes to establish a reputation for quick shipment and for variety of product it is necessary for it to carry a very large assortment of the metals offered and in sufficient variety to meet all requirements out of stock. Tanner & Co. of Indianapolis, Ind., have acquired an enviable reputation for prompt shipment and this has been brought about largely through two agencies, namely, one business intelligence and activity and the other the carrying of enormous stocks of such goods as are naturally included in their lines. It is said that the company carries somewhere between twenty and thirty distinct varieties of roofing plates and how many varieties of bright plates, galvanized iron and black sheets, they carry it would be difficult to state. It is claimed, however, and the enormous bulk quantities to be sent in their warehouse tends to substantiate the claim that their constant stocks on hand are greater than those of any other establishment in the Western country. Quick shipments and careful attention to orders are lines upon which Tanner & Co. conduct their business. Price quotations and such other information as may be necessary may be had upon application. In writing kindly mention The American Artisan.

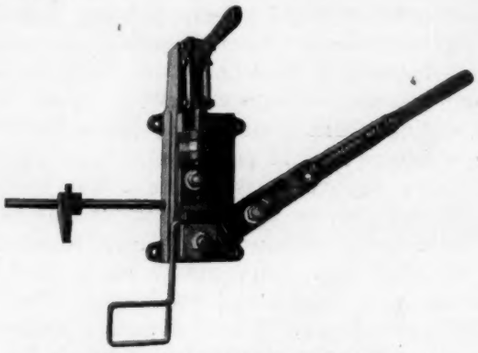
CANTON MFG. CO.'S REMOVAL.

The Canton Mfg. Co., of Canton, O., has already begun to move its effects into its newly erected plant on East Second St., Canton, where it will enjoy more than double the amount of space it has had in its occupancy on its former location. The company's officers offer a statement that its business included in the first three months of 1908 exceeded in volume the business of the corresponding months of 1907, a period which was presumed to be the high tide of a most prosperous season. The company's new plant is a single brick building of two stories with a frontage of

110 feet and a depth of 131 feet. It is situated upon the Pennsylvania Railway Company's tracks. The floor space of the plant runs to about two-thirds of an acre. Light is provided upon all sides. A private electrical plant supplies the night light. Elevator facilities are provided and superb foundations are provided for a large equipment of entirely new and improved machinery that is now being set into place. The company has some large contracts on hand at the present time and is sparing itself for the purpose of taking care of these in the most prompt and efficient manner. The company's products in skylights, cornices, finials, ventilators, metal ceilings, eaves trough, conductor pipe and other sheet metal manufactures which has always been a very strong and interesting one is expected to take on an improved and, if possible, a better condition through the aid of improved facilities, improved machinery and such other advantages as the new dispensation will provide. Good trade literature supplied upon application. In writing kindly mention THE AMERICAN ARTISAN.

IRON AND STEEL BENDING MACHINE.

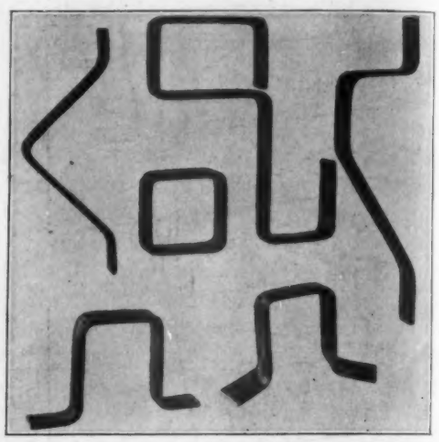
The Bassett-Presley Co., of Cleveland, Ohio, calls attention to the American Bending Machine for which the company is sales agent. An illustration of the machine is herewith presented. The machine is being offered by the company with a positive guarantee that it will do correct and satisfactory work and will prove itself a wonderful time and labor saver and combining these elements there is the assurance of its being a money maker and this should interest up-to-date manufacturers.



Iron and Steel Bending Machine.

The second illustration herewith is a photographic reproduction of some of the exact examples of bent iron work that has been performed by the bending machine herein described.

The American Bending Machine is made of the best crucible steel castings and is classed as a most useful and practical machine for range, stove and furnace makers, blacksmiths, wagon makers, machinists, iron and sheet metal workers and others. It can be fastened to a post, wall or bench. It has a four sided angle forming block, which may be adjusted to give the work a sharp bend, a slightly rounded corner, or a round bend. By setting a stop for the bending lever any desired angle may be formed and the work made up to the pattern. The capacity of the machine for cold work is about 1x⅜ inches. Rounds and square up to ⅝ inches, inclusive, and small shapes may be handled. For hot work the machine will take care of 3x¾ inches. Owing to the machine's quick adjustment and rapid operation it is exceptionally desirable for use with hot metals. In shops where these machines have been installed they have given splendid satisfaction and we are advised of one recent purchaser who reports that in his case the machine paid for itself in less than two weeks. A special feature of the machine is in its quick adjustments and exceedingly rapid operation. Good literature relating to the machine and to the company's general business in metals and metal products may be had by addressing the company at 402-415 Western Reserve Building, Cleveland, Ohio. In writing kindly mention THE AMERICAN ARTISAN.



Examples of Bending Work by American Bending Machines.

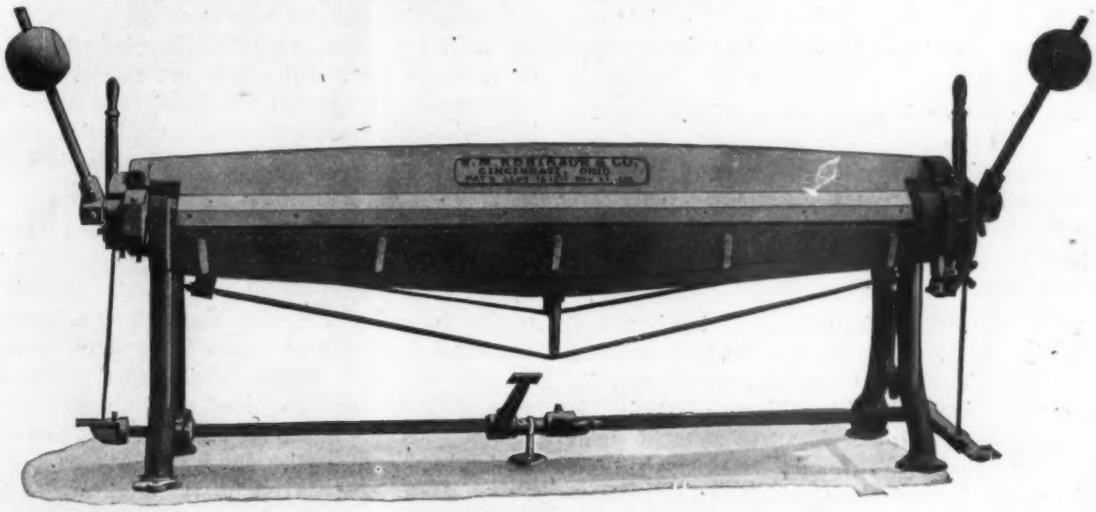
GEORGE C. KEENE CO.

We have received from George C. Keene & Co., manufacturers of Cornice Brakes and Sheet Metal Working Machinery, of Cincinnati, O., some very good trade literature relating to the machinery in question. Among these items of literature there are shown by illustration a number of practical devices that have a thoroughly fitting place in the sheet metal working industries of America and to an extent are used considerably in foreign countries. Among these devices is Keene's Cornice Brake in from 3 to 10 foot capacity, Keene's Combined Squaring Shear and Cornice Brake in 6 and 8 foot capacities, Keene's Cornice Brake with Gear Attachment in 6 and 8 foot sheet capacity, Keene's Foot Power Curved Moulding Hammer, all of which were patented in 1906. An interesting metal working machine shown in the list is Keene's Stove and Range Makers' Power Flanging Machine, which also was patented in 1906. This machine is compound geared and fitted with an automatic clutch for bending heavy sheets, and a friction clutch is arranged to provide for quick reverse motion. A gear upon the apron has a slotted segment for movable dog to stop any degree angle which is positive. It can also be stopped at will by the operator by the use of a hand lever. The segmental gear on the apron is secured with a key and set screw. When the key is removed the gear is loose on the apron journal and the machine may be operated by hand power. It operates with tight or loose pulleys, and only one

belt is required. The machine is made in five sizes, 3, 4, 6, 8, 10 feet, and will handle ten gauge steel or lighter. Literature relating to the Keene & Company machinery may be had by addressing the company as above indicated. Kindly mention THE AMERICAN ARTISAN.

SHEET METAL WORKING MACHINERY.

The accompanying illustration is a very good one of the cornice brake manufactured by the J. M. Robinson Mfg. Co. of Cincinnati, O. The reputation for exactness and for general excellence of the Robinson Mfg. Company's sheet metal working machinery is such as to have led it into all parts of the country where thoroughly good sheet metal working machinery is required and can be utilized. The company is an old established one and it is so thoroughly familiar with the established and also the growing needs as they arise in sheet metal work as to be informed at all times of coming requirements in the way of machinery and to be prepared therefor.



J. M. Robinson Mfg. Co.'s Cornice Brake.

Machines such as the one here illustrated are guaranteed for No. 20 gauge material and lighter and with the equipment of heavy bending attachments No. 18 gauge is manipulated without any difficulty. With each brake there is furnished 2½-inch, 2-inch, 1½-inch and 1¼-inch wood formers and 1-inch, ⅞-inch and ¾-inch iron formers. There are also furnished friction clamps for holding the forms. The machines are all fitted with four treadles, quadrant gauge, and three quadrant stops. They are made up in the best of material and are thoroughly strong, durable, accurate, active and reliable. These machines are offered by the J. M. Robinson Mfg. Co., Spring Grove avenue, Cincinnati, O., from whom illustrated literature may be had upon application. In writing kindly mention THE AMERICAN ARTISAN.

NOTES AND QUERIES.

DISH WASHING MACHINES.

From The Curtis Hardware Company, Paonia, Colo.

Where can we buy dish washing machines for hotel and boarding house use?

Ans.—R. M. Daniels, Appleton City, Mo.; Sanitary Specialty Company, 25-29 Griswold St., Detroit, Mich.; G. S. Blakeslee & Co., 2917 La Salle St., Chicago; Dunn Mfg. Co., 35 Dearborn St., Chicago; Garis-Cochrane Mfg. Co., Auditorium Tower, Chicago.

REFRIGERATORS.

From Bailey-Downing Hardware Company, Inc., 213 N. Main St., Mason City, Ia.

Please give us the name of a manufacturer of refrigerators?

Ans.—Herrick Manufacturing Company, Waterloo, Ia.

CAST IRON EASELS.

From Backman Sheet Metal Works, 405-407 E. Second St., Des Moines, Iowa.

Where can we get cast iron easels such as are used in front of theaters as displays?

Ans.—F. P. Smith Wire & Iron Works, 100 Lake Street, Chicago.

WAUKEGAN BARB WIRE.

From W. H. Drinkern, Stratton, Colo.

What company makes the Waukegan Barb Wire?

Ans.—American Steel & Wire Company, Chicago.

CHAMPION MOWER.

From W. H. Drinkern, Stratton, Colo.

What company makes the "Champion" mower and other implements of that name?

Ans.—International Harvester Company, 234 Michigan Ave., Chicago.

SCAVENGER BARRELS.

From A. J. Ross, Cambridge, Ill.

Where can I buy 30-gallon galvanized steel scavenger barrels with tight covers?

Ans.—Wheeling Corrugating Company, 23 N. Clinton street, Chicago.

ROOFING PUTTY.

From Grant Stricker, Laura, O.

Where can I get roofing putty that is of the same color as galvanized iron?

Ans.—The Wm. Connors Paint Mfg. Company, Troy, New York.

"CRACKER JACK" WASHING MACHINE.

From W. B. Gillespie & Sons, Jackson, Minn.

Can you give us the name of the manufacturer of the "Cracker Jack" Washing Machine?

Ans.—Diamond Spiral Mfg. Company, Tinley Park, Ill.

COOK'S AUGER BITS.

From Davey Bros., Anacortes, Wash.

Can you tell us who makes Cook's auger bits?

Ans.—Russell & Erwin Mfg. Co., 17 Lake street, Chicago.

OVAL GALVANIZED IRON BARS.

From Guthrie Sheet Metal Works, Guthrie, Okla.

Please inform us where we can buy Oval and Half Oval Galvanized Iron Bars.

Ans.—Kelley-Maus & Co., 1168 S. Ashland avenue, Chicago; Jos. T. Ryerson & Son, 18 Milwaukee avenue, Chicago.

ITEMS.

The Syracuse Stamping Company of Syracuse, N. Y., has been incorporated with a capital stock of $20,000 by C. F. Miller, H. F. Miller and G. G. Munger. The company will make hardware and tinware specialties.

A new lead manufacturing concern known as the Chicago Lead Company, is located at 214-216 North Green street. The company will manufacture lead pipe, sheet lead, solder, traps and many other lead products. The officers of the company are, I. Weil, President; B. Weil, Secretary-Treasurer, and A. F. Heinze, Manager.

Mr. Chas. Greer, who for many years has been connected with the American Sheet & Tinplate Company, in the Newcastle and Sharon district, as assistant district manager, has relinquished his position with the company, and will devote his attention to his more personal interests along other lines. It is stated that he will engage in the cement manufacturing business.

The semi-annual meeting of the Master Sheet Metal Workers of Providence, R. I., and vicinity was held on March 6th. The following officers were elected: Fred W. Morse, president; W. N. Congdon, vice-president; Warren Magoon, treasurer, and Frank David, secretary. All of these officials except Secretary David belong in Providence, R. I. Secretary David is located in Pawtucket, R. I.

The New York offices of the American Sheet & Tinplate Company have been removed to splendid quarters upon the 11th floor of the Hudson Terminal building at 33d street. By this arrangement the offices of the company are located directly adjoining those of the United States Steel Corporation and as to trade locality in a general way, the new situation is more nearly the center of the metal trades of New York City.

The Smith Porter Roofing and Cornice Co. of Louisville, Ky., has secured the contract for the tin and sheet metal work on the Buckner Avenue Public School now in process of erection in Louisville. The building is said to be a splendid example of modern schoolhouse construction and will be one of the finest in Kentucky. For the tin specifications in the entire work we are advised that Follansbee Brothers Company's "Banfield" Roofing Tin will be used.

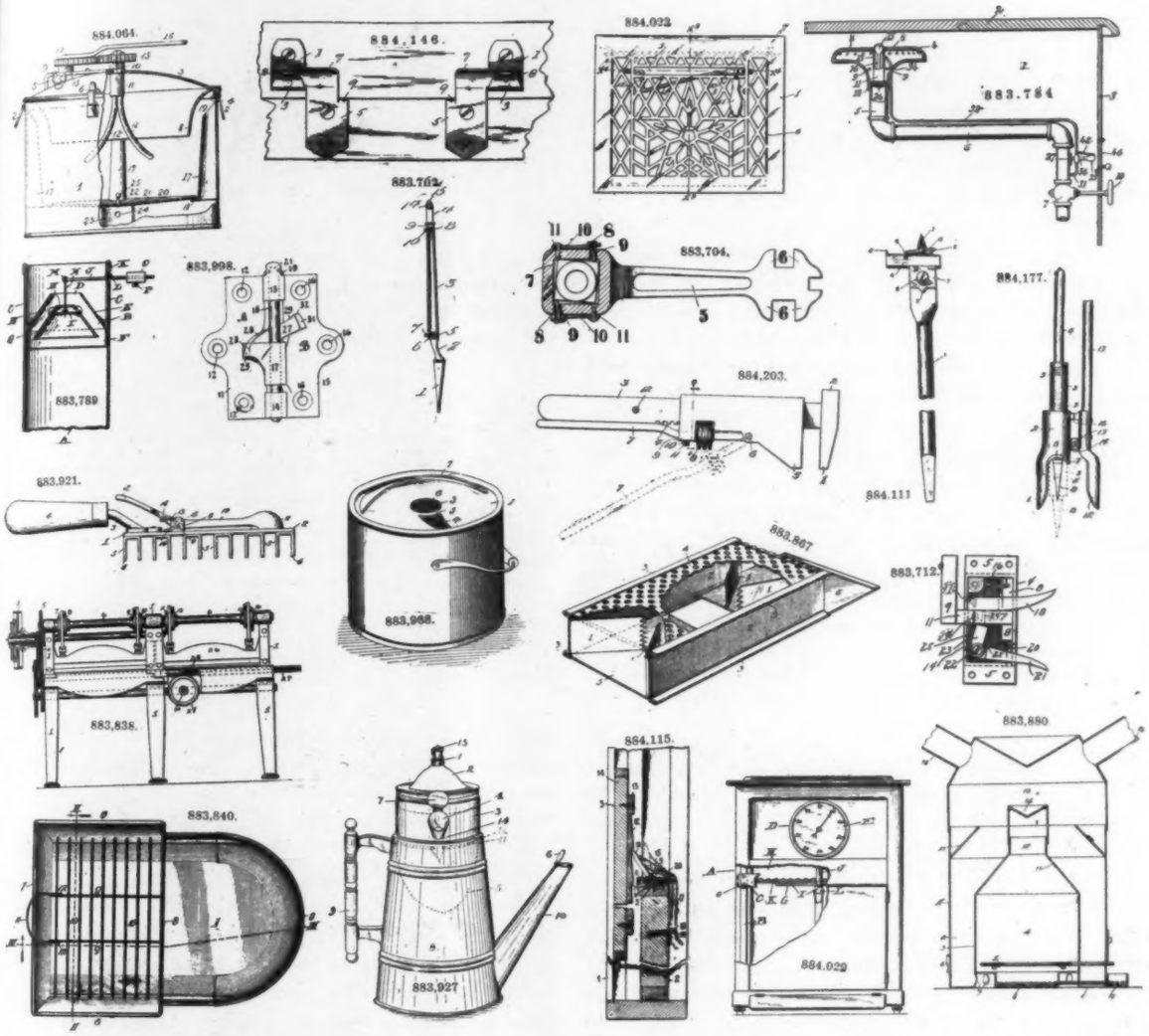
Mr. F. P. Walsh of San Antonio, Texas, one of the widely prominent master sheet metal workers of the state, and who has been highly instrumental in some of the chief sheet metal organizations of Texas including the recently organized state association of Master Sheet Metal Workers, was among the recent callers at the office of THE AMERICAN ARTISAN. Mr. Walsh, who recently sustained a serious accident in the line of his business in sheet metal working, has practically recovered from the results thereof. He was on his way East with reference to business and association affairs.

Sykes' Steel Roofing is known all over the country. The Sykes Steel Roofing Co. offers metal roofing and siding, corrugated sheets either painted or galvanized, metal window frames, and metal sash with wire glass, skylights, skylight gearing, and many other articles running along the same general lines. The company offers specialties in these goods that are in high standards of quality, and that have stood the tests of actual use for long periods, and thus have indicated their merits and values. Price lists and careful estimates upon goods and work of the character indicated will be furnished by the company upon application, address Sykes Steel Roofing Co., 108-120 W. 19th place, Chicago, Ill.

Secretary W. H. Barnard, of the National Association of Master Sheet Metal Workers of the United States, writing from his office in Norfolk, Va., advises us that Atlanta, Ga., has just completed the formation of a local association of Master Sheet Metal Workers. In this connection he also advises us that this local association has already joined the National Association of Master Sheet Metal Workers. The new association has been formally named the "Atlanta Association of Master Sheet Metal Workers." Thus far there has been formed only a temporary organization, but it is stated that permanent officers will be elected without delay. The secretary of the Atlanta association is Mr. D. H. Lopez.

It will be remembered that we made mention recently that a Prize Competition for a Tin Plate Book Cover Design was in progress through the instrumentality of Follansbee Bros. Co., of Pittsburg, Pa. We now learn that this contest has closed and that the prizes have been awarded as follows: First prize $25, was awarded to D. F. McLaughlin, Cincinnati, O., for excellence of color scheme and general design. This design was adopted by the company. Second prize $15 was awarded to Roi C. Collins, Westfield, N. J., for most suitable title, which will be combined with color scheme and general design of the first award. The third prize of $10 was awarded to Paul B. Tuzo of Baltimore, Md., and the fourth prize of $5 to Geo. J. Sperling, of Pittsburg, Pa. The latter two awards were made on the basis of general effect and artistic design and workmanship. We learn that a vast amount of interest was manifested in the competition and that the designs selected will provide for the Follansbee Bros. Co., a very artistic and beautiful cover for their forthcoming tin plate booklet to which it will be applied. Copies of this artistic booklet may be had as soon as the volume is ready by addressing Follansbee Bros. Co., Pittsburg, Pa.

NEW PATENTS.



883,702—Shovel, John W. Ellison, Comstock, Tex. Filed April 13, 1904. Serial No. 202,981.

883,704—Wrench. Charles O. Everhart, Girard, Ohio. Filed July 18, 1907. Serial No. 384,426.

883,712—Window-Sash Lock. Melvin H. Gaba, Dayton, Ohio. Filed April 24, 1907. Serial No. 369,902.

883,784—Safety Attachment for Burners. William A. Caldwell, Jr., Roswell, N. Mex. Filed June 28, 1907. Serial No. 381,242.

883,789. Self-Regulating Damper. Benjamin V. Croy, Cunot, Ind. Filed Jan. 11, 1907. Serial No. 351,824.

883,838—Machine for Cutting and Mounting Sheet Metal Strips. William Stuebing, Cincinnati, Ohio. Filed Aug. 31, 1906. Serial No. 332,789.

883,840—Combined Dish Pan and Drainer. Martin V. Taggart, Grenola, Kans. Filed May 8, 1906. Serial No. 315,757.

883,867—Animal Trap. George Elsey and Benjamin J. Wayt, Chicago, Ill. Filed Dec. 7, 1907. Serial No. 405,592.

883,880—Gas Furnace. Calvin P. Hensley and Frank H. Bryant, San Francisco, Cal., assignors to National Furnace Company, San Francisco, Cal., a corporation of California. Filed July 24, 1907. Serial No. 385,238.

883,921—Currycomb. Charles F. Thompson, Safford, Ariz. Filed Jan. 22, 1907., Serial No. 353,493.

883,927—Coffee Pot. John Armstrong Toronto, Ontario, Canada. Filed May 7, 1906. Serial No. 315,459.

883,968—Milk Pail Cover. Malinda C. Mason, Waukegan, Ill. Filed July 22, 1907. Serial No. 384,939.

883,998—Hinge. Rudolph G. Winter, Milwaukee, Wis. Filed June 9, 1905. Serial No. 264,396.

884,023—Hot Air Register. William R. Knights, Minneapolis, Minn. Filed Aug. 28, 1907. Serial No. 390,461.

884,029—Refrigerator. Theodore A. Mayer, Washington, D. C. Filed Sept. 13, 1907. Serial No. 392,688.

884,064—Washing Machine. Charles E. Bean, Garnett, Kans. Filed May 17, 1907. Serial No. 374,233.

884,111—Boring Tool. Oscar Tack, Newark, N. J., assignor to Tower & Lyon Company, New York, N. Y., a corporation of New York. Filed Aug. 12, 1905. Serial No. 273,857.

884,115—Sash Fastener. Thomas Wertz, St. Louis, Mo. Filed July 3, 1907. Serial No. 382,036.

884,146—Screen Hinge. William Gossett, Falls City, Neb. Filed Jan. 14, 1907. Serial No. 352,183.

884,177—Post Hole Digger. Jacob H. Lowry, Lenoir City, Tenn. Filed June 11, 1907. Serial No. 378,426.

884,203—Wrench. Charles S. Pederson, Grantsburg, Wis. Filed July 9, 1907. Serial No. 382,882.

Trade Report.

HARDWARE.

The addition of another week shows in its closing continued gain in the condition of Western and Northwestern hardware interests. As the season of sunshine and brightness advances the courage of this trade appears to improve and this condition is promptly reflected in the jobbing and manufacturing hardware markets in the middle and western states. The crop outlook throughout the West is reported excellent and with the drying up of the roads and the resumption of building activities which are sure to come, the hardware trade will find itself in much better than normal condition both as to its retail and its jobbing interests. Direct inquiry among Western and Northwestern hardware jobbers fails to show any falling off in the volume of trade for the period of 1908 that has passed as compared with the very prosperous year of 1907 during the same term. Each month of the current year has not only held its own but increases in business have been noted during the past three months. The month of March in particular showed a considerable gain and the month of April gives evidence of a considerable increase in sales over the month of April of last year. Among Chicago jobbers an increase in sales has been noted for each month of 1908 that has passed. March shows an increase of a little over 10 per cent and first half of April figures give an even better showing than the first half of March. Chicago hardware jobbers may be said to be busy with steadily increasing sales and an encouraging outlook for the future. Prices remain firm in practically all lines. In padlocks prices were withdrawn on the first of the month and a rearrangement shows an advance of 10 per cent in these lines. Toy express wagons have been advanced 50c per dozen. Axes, which were recently reduced in prices 75c per dozen, are reported under consideration for an early advance, and it is expected that axe prices will recover the 75c cut that was made a month ago.

Wire products continue steady in price and strong in demand. All grades of wire fencing are in increasing request. Wire nails are quoted in car lots to jobbers $2.05; car lots to retailers, $2.10; less than car lots, $2.15; painted barb wire, $2.20, cars to jobbers; to retailers, $2.25; less than car lots $2.35. Galvanized barb wire, car lots to jobbers, 30c advance over painted barb wire; plain wire to jobbers in cars, $1.90; plain wire to retailers in car lots, $1.95.

Cut nails are not at all active in the Chicago market. Regular prices are shaded slightly. Quotations are as follows: Iron cut, car lots to jobbers, $2.38; car lots to retailers, $2.43; steel cut, cars to jobbers, $2.28; cars to retailers, $2.33.

TIN PLATE.

The tin plate market is improving in condition. Orders are coming in freely and plants are rapidly resuming. Manufacturers are optimistic over the outlook. Prices are $3.70 at Pittsburg mills for 100-lb. coke plates, with the independents quoting $3.65. Price f. o. b. Swansea for tin plate is 12s 7½d. Arrivals of tin plates for the week ending April 11 were 23,493 boxes at New York, and 13,949 at Philadelphia. Stock of tin plates at Swansea on March 30 was 153,567 boxes, as compared with 140,001 at the same time last year.

For prompt shipment, f. o. b. mill:

Coke, tins, 14x20, I. C.	$3.85@3.90
Coke, tins, 14x20, 100 lbs	3.70@3.75
Coke, tins, 14x20, 95 lbs	3.65@3.70
Coke, tins, 14x20, 90 lbs	3.60@3.65
Charcoal, terne, 20x28, I. C.	7.30@7.35
Charcoal, terne, 20x28, 200 lbs	7.00@7.05

Usual difference for odd sizes and weights.

SHEET ZINC.

Business in sheet zinc continues of small proportions. Consumers are taking nothing beyond actual requirements for immediate use, and trading is mainly routine in character. Prices are steady on the basis of $7.00 per 100 pounds f. o. b. smelter.

SHEETS.

There is little to be said about the condition of the Sheet market. The West and Northwest, while they do not seem to be taking sheets in what may be said to be normal quantities for this period of the year, are standing relatively higher in sheet purchases than some of the other sections of the country. Reports from mills show a slowly increasing buying for stock and indications that jobbers' stocks in sheets are lower than they should be at this time of the year. Galvanized sheets are showing some increased activity and corrugated sheets are standing next in the activity line. This is thought to be an indication of better structural conditions. The mill operations of the American Sheet & Tinplate Company show a step of improvement by the capacity in operation having increased during the week from 50 to 55 per cent. Confidence is expressed at the mills in the future of the sheet market and prices remain steady.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		—Galvanized—	
Gauge.	Net.	Net.	List.
No. 30	$2.75	$4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.65	17
No. 27	2.40	3.35	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

COPPER.

There has been a slight unfavorable reaction in copper during the week, but the needs and the attitude of consumers argue for increased consumption of the metal speedily, but in spite of this the market rules low and the demand continues light. It is said, however, that producers of the metal are working in the direction of 16 cent copper.

Figures for copper production for the first quarter

of 1908 are as follows as shown in comparison with 1907:

	1908.	1907.
January	65,900,000	84,935,143
February	65,036,750	85,278,160
March	79,105,704	102,495,230
Total	210,042,454	272,718,533

Current quotations on the New York Metal Exchange are for prompt April delivery: Prime Lake, $12.87½ to $13.00; Lake, Arsenical brands, $12.87½; Electrolytic, $12.75 to 12.87½; Casting, prime brands, $12.60 to $12.70.

Exports from New York were 1,979 tons, or a total since April 1 of 2,004 tons. Exports for the week ending April 11 were 3,079 tons. Arrivals for the week were 50 tons copper, 200 tons matte and 3,800 tons ores, of which 50 tons copper arrived since April 11. Of the March exports of copper Holland took 5,504 tons, Germany 5,429 tons, the United Kingdom 4,456 tons, France 3,072 tons, Austria 1,086 tons, Italy 559 tons, China and Japan 796 tons, Belgium 340 tons, Russia 140 tons and other countries 148 tons.

Extreme fluctuations for the year:

	Highest.	Lowest.
Electrolytic copper, spot	13¾	12¼
Lake copper, spot	13⅞	12⅜
Casting copper, spot	13½	12⅛

SPELTER.

The spelter market is easy with a small demand from consumers who are more inclined to meet sellers' views. The St. Louis market was dull at 4.55c. The London market is firm at £21 10s.

Extreme fluctuations for this year:

	Highest.	Lowest.
Spot, New York	4.80c	4.32½c
Spot, London	£22 0 0	£19 17 6

ALUMINUM.

Trading in aluminum is more or less of a routine character with business of small proportions. Prices are easy. No. 1 ingots for remelting are offered at 33 @34c per pound in ton lots, and No. 2 ingots at 31@ 32c in car lots for 90 per cent pure.

PIG IRON.

There is reported a tonnage sale of pig iron in the Chicago market during the week of something less than 4,000 tons. This certainly indicates an exceedingly light market and an unsatisfactory one. Most all of the activity that is to be found in the Chicago market is running to Southern foundry iron, No. 2 Birmingham being the choice. It is reported that $12 Birmingham has been shaded but not to any very great extent. The pig iron market here is dull and featureless, buying for actual melting wants constitutes practically the entire activity of the market, and although there is a hopeful feeling, along the lines of expected sudden improvement there are no present indications of an early improvement of this kind.

CHICAGO MARKET.

Lake Superior Charcoal	$21.50@22.00
Northern Foundry No. 1	17.85@18.35
Northern Foundry No. 2	17.35@17.85
Northern Foundry No. 3	16.85@17.35
Southern Foundry No. 1	16.85@17.35
Southern Foundry No. 2	16.35@16.85
Southern Foundry No. 3	15.85@16.35
Southern Foundry No. 4	15.35@15.85
Southern No. 1 Soft	16.85@17.35
Southern No. 2 Soft	16.35@16.85
Southern Gray Forge	15.35@15.85
Southern Mottled	15.10@15.60

PITTSBURG MARKET.

No. 2 foundry	$16.15@16.65
Gray forge	15.40@15.65
Bessemer	17.50@17.90
Basic	16.30@16.40
Malleable	16.90@17.15
Southern No. 2	16.90@17.40
Southern forge	15.15@15.40

BIRMINGHAM MARKET.

No. 1 foundry	$13.00@14.00
No. 1 soft	13.00@14.00
No. 2 foundry	12.00@12.50
No. 2 soft	12.00@12.50
Gray forge	10.50@11.00

Rogers, Brown & Co., Cincinnati, will say in their weekly report: It is possible to find several encouraging indications during the week and the picking up in pig iron transactions during the first half of April compared with February and March has been very gratifying. This increase in sales has doubtless been due to the feeling among the best informed buyers that the bottom had been reached, and even if such were not absolutely the case they could cover to advantage at present figures. This has been done to a considerable extent and a fair volume of business is the result. Inquiries have had more to do with extended delivery than heretofore and cover a wide range of grades. These two items, coupled with a slight increase in shipments on past due orders, have helped the general movement in the pig iron world.

Steel-making irons have not shown the life that has been manifest in foundry and other lines, due to the lack of specifying by railroads and other users of steel products.

There does not appear to have been material increase in the consumption of iron during the week more than has maintained for some time past. This consumption is gradually and steadily improving, but is still rather backward.

It is reported that conservative estimates show a decrease of pig iron stocks in the furnace yards of the Mahoning and Shenango valleys during the week, without any increase in production.

Matthew Addy & Company, Cincinnati, will say in their weekly report: "While pig iron is dull, yet the demand for finished goods seems to be increasing. And in this matter pig iron cannot lead—it follows. It is a barometer of trade because it goes up or down with the pressure of business. A maker of machine tools here told us that in April up to date he has received as many orders as in January, February and March put together. If many consumers of pig iron are having the same revival in trade it will not be long until the melt of iron will necessarily be increased. The only thing wrong with the market to-day, of course, is the narrow demand. There is no question at all but that we are in the midst of a period of very great underconsumption of pig iron. By underconsumption we mean that to-day the country is not using the amount of pig iron that is actually demanded to make up the wear and tear and the actual needs of the community at large. It is not overproduction that is the trouble, but underconsumption, pure and simple, and the meaning of these two terms is widely different.

"The iron business knows no happy medium. Either the demand is so tremendous that we can't make enough iron to supply it; and finally with a tremendous effort we make enough and then more than enough; or demand slackens to such an extent that it is exceedingly difficult to contract production fast enough to avoid trouble. We are either overconsuming and overproducing it or underconsuming it, and ironmasters are either feeling like kings or beggars, and just now, of course, they are all in the latter class.

"Prices are irregular, and are so low that most of the iron now being sold is marketed without profit if not with a loss."

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	13 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$17 85@$18 35
North'n Fdy., No. 2	17 35@ 17 85
North'n Fdy., No. 3	16 85@ 17 35
Southern Fdy., No. 1	16 85@ 17 35
Southern Fdy., No. 2	16 35@ 16 85
Southern Fdy., No. 3	15 85@ 16 35
Southern Fdy., No. 4	15 35@ 15 85
Southern No. 1 Soft	16 85@ 17 35
Southern No. 2 Soft	16 35@ 16 85
Southern Gray Forge	15 35@ 15 85
Southern Mottled	15 10@ 15 60
Lake Sup. Charcoal	21 50@ 22 00
Southern Silveries, 4% Silicon	18 85@ 19 35
Southern Silveries, 5% Silicon	19 35@ 19 85
Southern Silveries, 6% Silicon	20 35@ 20 85
Jackson Co. Silveries, 6 per cent	21 90@ 22 40
Jackson Co. Silveries, 8 per cent	23 90@ 24 40
Jackson Co. Silveries, 10 per cent	25 90@ 26 40
Malleable Bessemer	18 00@ 18 50
Standard Bessemer	19 40@ 19 90
Alabama Basic	17 35@ 17 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs.	$2 60
Nos. 13-14	per 100 lbs.	2 65
Nos. 15-16	per 100 lbs.	2 70
Nos. 17-21	per 100 lbs.	2 75
Nos. 22-24	per 100 lbs.	2 80
Nos. 25-26	per 100 lbs.	2 85
No 27	per 100 lbs	2 90
No 28	per 100 lbs.	3 00

GALVANIZED

No. 10	per 100 lbs.	$2 25
Nos. 12-14	per 100 lbs.	2 45
No. 16	per 100 lbs.	2 65
Nos. 17-21	per 100 lbs.	2 85
Nos. 22-24	per 100 lbs.	3 05
Nos. 25-26	per 100 lbs.	3 25
No. 27	per 100 lbs.	3 45
No. 28	per 100 lbs.	3 65

POLISHED SHEET STEEL.

No. 24	per 100 lbs	$4 90
No. 26	per 100 lbs.	5 00
No. 27	per 100 lbs.	5 10
No. 28	per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth, No. 20		$3 05
" "	No. 22-24	3 10
" "	No. 25-26	3 15
" "	No. 27	3 20
" "	No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel.....8½c

SOLDER.

XXX Guaranteed ½ & ½	per lb. 18 c
Commercial ½ & ½	per lb. 17½c
No. 1 Plumbers	15½c

SHEET ZINC.

500 lb. Casks	case, per cwt. $7 50
300 lb. Casks	per cwt. 7 50
Sheets	per cwt. 7 50

COPPER.

Copper sheet, 100 lbs. over, base...20c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	33 c

LEAD.

American Pig	4 c
Bar	4 c
National (White) brands (in less than 100 lb lots), per lb	8½c
Sheet.	
Full coils	per 100 lbs. $9 00
Cut coils	per 100 lbs. 9 50

HARDWARE.

ADZES.

Carpenters'.	
Plumbs	40%
Coopers'.	
Barton's	20%
White's	15%
Railroad	
Plumbs	40%
Ship.	
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c
Shells, Loaded—	
Loaded with Black Powder	40%
Loaded with Smokeless Powder, medium grade	40 & 5%
Loaded with Smokeless Powder, high grade	40 & 10 & 10%
Union Metallic Cartridge Co.:	
New Club, Black Powders	40%
Nitro Club, Smokeless Powders	40 & 5%
Arrow, Smokeless Powders	40 & 10 & 10%
Winchester:	
Smokeless Repeater Grade	40 & 5%
Smokeless Leader Grade	40&10&10%
Black Powder	40%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.		Each.
DuPont's Sporting, kegs		$ 50
" "	½ kegs	2 50
" "	¼ kegs	1 40
Dupont's Sm'k'less	50-lb. drum	22 45
" "	25-lb. kegs	11 30
" "	12½-lb. kegs.	5 80
" "	6½-lb. kegs.	2 97
"	1-lb. cans	15

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper.....25%

AUGURS.

Boring Machine	70%
Irwin's	40&10%
Carpenter's Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearns, No. 3	36 00
Post Hole.	
Digwell, 8-inch	per doz. 12 50
Iwan's Post Hole and Well	40%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or wi'out screw	40-12½%
Snell's " " "	40-5%

AWLS.

Brad.		
No. 3 Handled	per doz.	$0 40
No. 1050 Handled	"	80
Shouldered, assorted, 1 to 4,	per gro.	$1 20
Patent asst'd, 1 to 4	"	85
Harness.		
Common	"	95
Patent	"	90
Peg.		
Shouldered	"	1 20
Patent	"	60
Scratch.		
No 1 handled	"	4 80
No. 15, socket handled	per doz.	1 25
No. 7 Stanley		1 80
Sewing.		
Common	per gro.	90
Patent	"	90

AXES.

Boy's Handled.		
Lippincott, 3 lb	per doz.	$6 00
Falls City	"	6 00
Broad.		
Plumbs, West, Pat		33⅓%
" Can. Pat		40%
" Firemen's (handled)	per doz	$1, 75
Plumbs, Miners' (handled)	"	6 75
Single Bitted (handled)		
Gladiator . 3 to 4 lbs , per doz		$11 00
Flint Edge " " "		9 25
Standard .. " " "		9 25
Elec Chopper, Forest Clipper		10 50
Perfect Premier " "		10 00
Crown " "		7 00
Single Bitted (without handles)		
Gladiator...3 to 4 lbs. per doz.		$8 50
Flint Edge. " "		7 00
Standard... " "		7 00
Electric Chopper" "		8 25
Perfect..... " "		7 75
Crown..... " "		6 25
Double Bitted (without handles).		
Gladiator...3 to 4 lbs. per doz.		11 50
Flint Edge. " "		9 75
Perfect..... " "		11 00

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c
4 to 4½ lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	40%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point..per cwt. $3 75

BASKETS.

Clothes.		
Small Willow	per doz.	$7 00
Medium "	"	8 75
Large "	"	10 50
Galvanized Iron.	½ bu. 1 bu. 1½ bu.	
Per doz	$4 75 6 50 8 00	

BEATERS.

		Per doz.
Carpet.		
No. 10 Coppered Spring Wire.		$0 90
No. 12 Spring Wire		1 10
No. 10 Preston		1 10
Egg.		Per doz.
No. 50 Imp. Dover		$0 75
No. 102 " "	tinned	85
No. 150 " "	hotel	1 40
No. 10 Heavy hotel tinned		2 10
No. 13 " " "		3 30
No. 15 " " "		3 60
No. 18 " " "		4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8-inch	per doz. $8 50
10-inch	" 10 50
Moulders'.	
12-inch	" 12 50

BELLS.

Call.	
3-inch Nickeled Rotary Bell, Bronzed base	per doz. $5 00
Cow.	
High Grade	60%
Kentucky	65&10%

Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 -in. Old Copper Bell	4 00
3 -in. Old Copper Bell, fancy	6 00
3 -in. Nickeled Steel Bell	4 50
3½-in. Nickeled Steel Bell	5 00

Hand.	
Hand Bells, polished	50&5%
White Metal	40%
Nickel Plated	30%
Swiss	40&33⅓%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50%

Farm, lbs	40	50	75	100
Each	$1.25	1.60	2.35	2.85

BEVELS, TEE

Stanley's, rosewood handle, new list	25%
Stanley's iron handle	25%

BINDING, OILCLOTH.

Zinc	80%
Brass	70&10%
Brass plated	75&5%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50%
Russell Jenning's	25&10%
Clark's Expansive	60%
Steer's " Small list, $22.00	25%
" " Large " $26.00	25%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's	per doz. $1 25
No. 20 "	" 1 75
American Snail head	" 75
" Rose "	" 90
" Flat	" 75
Mayhew's Flat	" 1 25
" Snail	" 1 25
Dowell	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern	per doz. $0 60
German	" 65
Gouge	" 80
Spoon	" 80
Countersink	" 1 00
Reamer.	
Jenning's Square	" 2 50
Standard Square	" 75
German Octagon	" 75
Screw Driver.	
No. 7 Common	" 50
No. 1 Triumph	" 1 25
No. 2 "	" 1 [illegible]
No. 340 Shepardson's	" [illegible]
No. 1 Smith's	" [illegible]

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ¾ & 1¼-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50
Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%
Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%
Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%
Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 35
Peace Maker..... " 3 00
Crystal Glass..... " 4 00
Brass King..... " 4 00
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&5%
Machine, ⅜x4 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x⅜x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire.....75%
Wagon Box Strap.....70%
Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%
Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%
Flush.
Wrought.....50&10%
Spring.
Wrought.....
Wrought, heavy.....
Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00
Bung.
Doz.
Enterprise Mfg. Co.'s No 1... $14 00
" " " No 2.. 18 50

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.00 17.50
Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60
Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding.....70%

BROILERS.

Wire.....70%
No. Cwron, Self-basting, 80dos .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....30%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%
Wrought Brass (New List).....40%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and - .....70&10%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75
Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25
Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz.....$19.00 $21.50 $23.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $23.50 $24.50
New Elgin Pattern.
Nos 705 708 710
Per doz.....$25.00 $27.00 $28.00
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85
Bright Ox Chains.
⅝-in. $7.25; ¾-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.
Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%
Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%
Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00
Pump Chain
Galvanized, per 100 lbs.....$5 50
Safety Chain.
Brass.....60%
Special Steel Loading Chain.
Inch..... ⅜ 7/16 ½
Per 100 lbs.....$16.00 $13.50 $12.50
Stretcher Chains.
5/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's.....70&5%
Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch..... ½ 9/16 ⅝
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags..... per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20
Cold.
Good quality, ¾ in. and larger.....per lb. .12c
Smaller size per doz.....
Socket, Framing and Firmer.
Clover.....75&10%
Tanged, Firmer.
With handles.....30&5%
Choppers, See *Cutters, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel..... .65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%
Carpenters'.
Steel Bar.....25%
Hose.
Sherman's, brass, ¾-in., per doz.. 42c
Double, brass, ¾-in., " 90c
Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle..... per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%
Pot.
Wire.....per doz. $0 55
Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25
Butchers.
Plumbs.....25%

CLEVISES

Malleable.....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%
Damper.
Standard.....per doz. 65c
Troy..... " 38c
Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%
Hardware Wire—full rolls (100 ft.)
2 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75
Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs ..50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz.... $0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 30 80 108
Per
Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per
Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%
Sash.
Monarch Braided Flax ...per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

Inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%

Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202. list, $1.50 ea.....40&7½%

Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00

Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American..... 50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant..... ..33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 60
Ryan's..... " 17 00
See also Augers—Post Hole.

Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%

Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10

Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25

Reciprocating.
Goodell's.....per doz. 16 50

Bit Stock.
Standard List.. 60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65

Corrugated Conductor.
Discount.....75&10%

Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40

Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1 70 2.20

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs, ¼ kegs, kegs.
No 60 to 150, per lb.. 6c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%

Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.

Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00

Coal, Coke, Cottonseed.....30%

Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%

Header.
3-tine.....60&5%
4 " .....60&5%

Manure.
4-tine 60%

Ore.....40%

Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20

White Mountain.
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25
Ideal..... 3 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%

Saw.

Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single..... 90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c

Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75

Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.

Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50

Loose.
Per ton.....$20 00@$21 00

Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 19

Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52

Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%

Engineers'.
Plumbs.....60&5%

Farriers'.
Plumbs.....40&10%

Machinists'.
Plumbs.....60&5%

Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%

Riveting.
Plumbs.....40&12½%

Shoe.
Cast.....per doz. $0 75

Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .....80&5%
5 lbs. and over.....80&10%

Masons'.
Single and Double Face.....80&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35

Axe.....60%

Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 38c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24

Coal Pick.....50&10%

Drift ng Pick.....50&10%

File, assorted, 13c; Large, 16c per doz.

Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c

Hatchet..... " 40

Hay and Manure Fork.....30%

Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80

Screw Driver.
Assorted..... " 37
Large..... " 48

Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%

Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%

Eave Trough.
Baker's.....per gro. $2 35
Imperial.....20%
Wire.....33⅓%

Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per doz. $1 20%1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per doz. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 05

Gate.
Clark's..... 1 2 3
Hgs & Ltch.. doz. $2.50 2.90 4.00
Hinges only... " 1.90 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50

Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%

Wrought Iron
New Lists .....

McKinney
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%

Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40

Screw Hook and Eye.
½ in.....per 100 lbs. $6 75
⅝ in..... " " 7 75
¾ in..... " " 9 75

HOES

Garden .....70&10%

Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%

Awning.....per gro. $1 00

Belt.
Brown's.....70&5%
Jones'.....65&5%

Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle.per doz. $7 00
Chain.
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.60-8.10 9.75 11.50 12.60
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....25%
Wrought.....20%
Corn.
Common, unpolished, per doz. $1 50
Little Giant..... " 3 25
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75
Hammock.
With plate.....per doz. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring .....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

				Coupled, per ft.
Heron, 3 ply-¾" guar. press			55 lbs.	7½c
Crane.. "	"	"	75 "	8½c
Falcon "	"	"	95 "	9½c
Eagle "	"	"	120 "	10½c
Condor "	"	"	150 "	11½c
High Test "	"	"	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-¾"-guar. press.			400 lbs.	11½
Special "	"	"	300 "	9½c
Leader "	"	"	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 50 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz.....$0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz.. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J. Enterprise, per set 93
No. 55 J. " " 90
No. 50 T. " " 1 00
No. 55 T. " " 96
No. 50, Bless & Drake " 93
No. 55, " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest . . " 6 25
Sutton.....each.... 2 00

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....60%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander's r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2½-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33½%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 60
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton. " 25

LINING, STOVE.

In Bricks .....per crate, 42c

MACHINES.

		Without Augers	With Augers
Boring.			
Angular.....per doz.		3 00	4 40
Upright.....	"	2 60	4 00
Leather Riveting.			
Chicago, Pomeroy....per doz.		$9 00	
Excelsior.....	"	2 00	
Handy.....	"	2 00	
Little Giant.....	"	3 00	
Pony, Pomeroy.....	"	7 20	
Washing.			
Winner.....per doz.		54 00	
Keystone.....	"	54 00	
U. S. Steel.....	"	60 00	
Advance, f.o.b.Chicago	"	24 50	

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs.....	10	13	16	18
Per doz....	$4.00	4.50	5.25	5.60
Wood face, lbs.....	10	12	14	
Per doz.....	$5.00	5.50	6.00	

Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1½ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Gladiator—B. B.
Inches..... 16 18 20
Each..... 6.50 7.25 8.00
King Universal—B. B.
Each..... 5.25 5.75 6.00
Inches..... 14 16 18
Big Giant..... 3.50 3.90 4.25
Little Giant..... 2.50 2.65 2.75
Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf .....per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .80,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... " 3 60
Mystic..... " 3 00

NUTS, HOT PRESSED.

Square Blank.
In ½ 9/16 ⅝ 11/16 ¾ ⅞
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ½ 9/16 ⅝ 11/16 ¾ ⅞ 1
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin . . . .per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2.25 2.75
Can.
Delmonico .....per doz $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.
Galv'd, qts. 14 16 18 20
Per doz..... $3.75 4.00 4.75 5.25
Water.
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn .. 4.00 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll, 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel,
Inches..... 6 8 10 12
Per doz..... $2.00 2.60 2.95 3.75
Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.

	Gal. Steel	Charcoal
L. C. L. to Dealers:—		
Eastern	70&10%	50&10&2½%
Pittsburgh	75&10&5%	60%
Central	75&10%	60%
Northwestern	75&7½%	60%
Western	70&12½%	50&12½%
Tennessee	70&10%	50&12½%
Southern	70%	50&12½%
Southwestern	70%	50&5%

Terms 60 days; 2% Cash 10 days.
Factory shipments generally delivered.

Lead.
Full coils.....per lb. 7½c
Cut coils..... " 7½c
Stove
Acme—Inches.... 5 6 7
Smooth, per jt... 8½c 9½c 10½c
Planished, " 32 c 33 c 43 c
Peerless—Smooth, 7½c 8 c 9½c
Polished.....14½c 15½c 18 c
Planished.....28 c 31 c 35½c
Made-up—Inches.. 5 6 7
Smooth..... 7½c 8 c 9½c
7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

Blue Steel:	5"	6"	7"	7" to 6"
	—Cents—			
Battle Axe Blue...	7	7½	9½	10½
Can't Slip " ..	7½	8½	10	11
Peerless " ..	7½	8½	10	11
Duplex " ..	10	11	13	14
Yale, Rus. Fin....	15	16	17	18
Duplex Planished.	29	31	37	38
Galvano, Gal.....	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Crating made-up pipe extra.
Wrought Iron Gas Pipe.
⅛@½-in., black.....discount, 60%
⅝@½-in., black..... " 60,10&5%
⅝-in. to 6-in, black... " 70%
7-in. to 12-in., black... " 62½%
⅛@½-in., galvanized.... " 42%
⅝@½-in., galvanized.... " 50%
⅝-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.
Inches..... 4½ 6 8 10
Per doz..... $2.25 2.75 3.25 4.25
Cutting.
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
Pride of the Bar..... $1 60
Putz Cream,
Pts..... 1-6 ¼ ½
Per doz. $0.80 1.10 1.65
Pts..... 1 2 3 8
Per doz..$2.75 4.50 7.50 12.50
White Silk, half pints, per doz, $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,
Pts..... 1-6 ¼ 1 2
Per doz. $0.70 1.35 2.25 3.00
George William Hoffman
U. S. Metal Polish Paste, 3-oz boxes, per doz, 50c; per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes..... " 2 25
U. S. Liquid, 8-oz cans, per doz, $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish.....per doz 1 75
.....per gro 18 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro..... 5 00
Stove.
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 70
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 05
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 25
Blackene, 1-lb. cans...per gro. 13 00
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ½-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Bernz.....each, $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy..... each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.
Nos..... 1 2 3 4
Each..... $1.00 1.15 1.30 1.70
Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common ... .per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned, Reg. and Border.....70&10%
On Face.....75&10%

RINGS.

Bull.
Copper.....2½ in. 3in.
Per doz.....$1 10 $1 40
Rea's Improved Self-Piercing copper, pr doz 2 00 ....
Steel, per doz..... 85 95
Nickel plated..... 1 35 ....
and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 00
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels. .per lb. 11½c
¼, 5-16 in Com. in coils. . " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality.....12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....25%
Jackson's.....25%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1 35@1 60
Disston's.....%35
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling.....25%
One Man.....50%
Panel
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's.....25%
Disston's.....25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel . . . . per doz, 60c@75c
Road.

Cubic ft.	7	5	3
Without run's, ea.	$4.00	3.75	3.50
With runners, ea..	4.25	4.00	3.75

SCREWS.

Bench.
Iron, in..... 1 1¼ 1½
$3.50 4.00 4.75
Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial
Nos .. 1 2 3 4 5 6
Per doz. 18c 20c 26c 30c 23c 25c
Wood.
F. H. Bright.....87½&5%
R H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common.... " 33
No. 5, square..... " 75
Cup point, knurled... " 75

Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%

Saw.
Aiken's Pattern.....per doz $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz $1 60
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00

Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25

Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70

Hatfield's.
Per set..... $0.75 1.00 1.00

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%
Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00

Drain.
Iwan's Perfection.....50%

Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list.....Discount, 12½%

Snow.
Per doz.....$1.65@$9.00

Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%

Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c

Reliance.
Per doz . . . light, $1.25; heavy, $2 50

Star.
Per doz . . . light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Miter.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood., " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb . . .9¼@9¾c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.
Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6¾
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50

Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.45 4.50 6.45

TUBS, WASH

Standard, Wood Ex.
Nos..... * 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz... . 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " " cones....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 19c
" " ½-lb. " 18c
" " ¾-lb. " .....doz. 75c
2-ply Jute, ¾-lb. " 14c
3-ply Jute, ¾-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
120 strand.....6½c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide,
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots,
Tinned..... .....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb.:
In. ⅜ ½ ⅝ ¾ ⅞ 1 1¼ 1½
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ⅜ ½ ⅝ ¾ ⅞ 1 1¼ 1½
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10¾
Saw..... " 8¾

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 39 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed.	Painted.	Galv'd
Carloads . . per 100 lbs.	$2.65	$2.95
Less than car "	2.70	3.00

Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80%@80&10%
In 5-lb. spools.....per lb.....26c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe 40%
Briggs' Pattern nut.....40%
Combination Bright.....40&10%
Combination Black.....40, 10 & 5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

WRINGERS.

No. 22, Guarantee....per doz, $32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
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Iwan Bros., Streator, Ill

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Boynton Furnace Co., Chicago, Ill

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Berger Bros. Co., Philadelphia, Pa

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Star Expansion Bolt Co., New York, N.Y

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Green Co., A. H., New York

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Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo. N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O

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Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Canton Mfg. Co., Canton, O
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Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Watson Co., James, Bradley, Ill

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Armor-Clad Mfg. Co., Canton, O.

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Bassett & Presley Co., Cleveland, O
Hussey & Co., E. G., Pittsburg, Pa

Copper and Brass

Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Obermayer Co., S., Cincinnati, O

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Denning Wire & Fence Co., Cedar Rapids, Ia

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Eller Mfg. Co., Canton, O
Watson Co., James, Bradley, Ill

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Niagara Machine & Tool Wks., Buffalo, N. Y.
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Modern Improvements Mfg. Co. Brooklyn, N. Y.

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Disston, Henry & Sons, Philadelphia, Pa

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Rait, Walter S. & Co., Chicago, Ill
Schwab, R. J. & Sons Co., Milwaukee, Wis
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Stove & Range Co of Pittsburgh, Pittsburgh, Pa
Twentieth Century Heating & Ventilating Co., Akron, Ohio
Youngstown Furn. & Supply Co., Youngstown, O

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Clayton & Lambert Mfg. Co., Detroit, Mich
Turner Brass Works, Sycamore, Ill

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Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer & Bros. Co., F.. Peoria, Ill
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Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

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Richards Mfg. Co., Aurora, Ill

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Safety Door Hanger Co., Ashland, O

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Sycamore Wagon Works, Sycamore, Ill

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Lawson Mfg. Co., Chicago, Ill

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Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Hones

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Standard Horse Nail Co., New Brighton, Penna

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North Bros. Mfg. Co., Philadelphia, Pa
Sturges & Burn Mfg. Co., Chicago, Ill

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Nickel Plate Stove Polish Co., Chicago, Ill

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Lalance & Grosjean Mfg. Co., Chicago, Ill

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Berzer Mfg. Co., Canton, O

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Denning Wire & Fence Co., Cedar Rapids, Ia
Enterprise Foundry & Fence Co., Indianapolis, Ind

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Detroit Heating & Lighting Co., Detroit, Mich

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Electra Lightning Rod Co. Cresco, Ia
Foy, Edw. A. & Co., Cincinnati, O
Maher & Son Lightning Rod Co., Preston, Ia

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Enterprise Mfg. Co. of Pa., Philadelphia, Pa

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Harrington & King Perforating Co., Chicago, Ill

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Nat'l Sheet Metal Roofing Co., Jersey City, N. J

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Hungerford, U. T., Brass & Copper Co., New York, N. Y
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Columbus Bolt Works, Columbus, O

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Connors, Wm., Paint Mfg. Co., Troy, N. Y
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Harrington & King Perforating Co., Chicago, Ill

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Meyer & Bro. Co., F. Peoria, Ill

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Reeves Mfg. Co., Canal Dover, O

Pipe—Wall

Michigan Safety Furnace Pipe Co., The Detroit, Mich

Pliers

Schollhorn Co., Wm., New Haven, Conn

Plungers

Berger Bros. Co., Philadelphia, Pa

Polish—Metal

Nickel Plate Stove Polish Co., Chicago, Ill

Polish—Stove

Black Silk Stove Polish Works Sterling, Ill.

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Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works., Buffalo, N.Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Schollhorn Co., Wm., New Haven, Conn

Putty—Stove

Connors, Wm. Paint Mfg. Co., Troy, N.Y

Rasps

Disston, Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

Razors

Droescher, S. R., New York, N. Y
Smith & Hemenway Co., New York, N.Y

Registers

Henry & Scheible Co., Cleveland, O
Meyer Bros. Co., F. Peoria, Ill
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

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Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N. Y

Roasters

Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies

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Roofing and Siding

Bassett & Pressley Co., Cleveland, O

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Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Reeves Mfg. Co., Canal Dover, O
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofing—Galvanized

Delphos Mfg. Co., Delphos, Ohio

Roofing Cement

Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y

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Lufkin Rule Co., Saginaw, Mich

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Paul, Richard, Cleveland, Ohio

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Pullman Mfg. Co., Rochester, N.Y

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Harrington & King Perforating Co., Chicago, Ill

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Columbus Bolt Works. Columbus, O

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North Bros. Mfg. Co., Philadelphia, Pa

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Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O

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Gerock Bros. Mfg. Co., St. Louis, Mo

Sheet Metal Specialties'

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Sheets—Black and Galvanized

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Corrugated

Sykes Steel Roofing Co., Chicago, Ill

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American Sheet & Tin Plate Co., Pittsburgh, Pa.
Follansbee Bros., Pittsburg, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa.
American Steel & Wire Co., Chicago, Ill
Follansbee Bros. Co., Pittsburgh, Pa

Shelf Boxes

Green & Co., A. H., New York, N. Y

Shingles—Metal

Cortright Metal Roofing Co., Philadelphia and Chicago

Shovels

Avery Stamping Co., Cleveland, O

Siding

Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Berger Mfg. Co., Canton, O
Burt Mfg. Co., Akron, Ohio
Eller Mfg. Co. Canton, O
Sykes Steel Roofing Co., Chicago, Ill

Skylight Gearing

Sykes Steel Roofing Co., Chicago, Ill
Weiss, H. Co., New York, N.Y

Slate Roofing

Auld & Conger Co., Cleveland, O

Slating Nails

Hussey & Co., C. G., Pittsburg, Pa

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Steel

American Steel & Wire Co., Chicago, Ill

Statuary

Gerock Bros. Mfg. Co., St. Louis, Mo

Stoves and Ranges

Champion Steel Range Co., Cleveland, O
Culter & Proctor Stove Co., Peoria, Ill
Monitor Stove & Range Co., Cincinnati, O
Schneider & Trenkamp Co., Cleveland, O
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stoves—Gas

Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N Y
Weller Pattern Co. Quincy, Ill

Stove Pipe

Hemp & Co., St. Louis, Mo

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Polish

Nickle Plate Stove Polish Co., Chicago, Ill

Stove Putty

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Stove Repairs

American Stove Repair Works, St. Paul, Minn
Brauer, A. G., Supply Co., St. Louis, Mo

Stove Trimmings

Cleveland Nickel Works, Cleveland, O

Sugar Kettles

Sperry, D. R. Co., Batavia.

Supplies—Foundry

Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

Supplies—Stove Dealers'

Brauer, A. G., Supply Co., St. Louis, Mo

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Hungerford, U. T., Brass & Copper Wks New York, N. Y

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Lufkin Rule Co., Saginaw, Mich

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Hooper, C. N. Dubuque, Iowa

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Harrington & King Perforating Co., Chicago, Ill

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Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N.Y

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American Sheet & Tin Plate Co., Pittsburg, Pa
Bassett & Pressley Cleveland, O
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Rock Island Tool Co., Rock Island, Ill
Schollhorn Co., Wm., New Haven, Conn

Tools—See Carpenters' Tools

Tools—Linemen's

Smith & Hemenway, New York, N.Y

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Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y

Tubing—Heavy Tin

Dieckmann, Ferdinand, Cincinnati, O

Ventilators

Berger Mfg. Co., Canton, Ohio
Burt Mfg. Co., Akron, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Uno Ventilator Co., Lynn, Mass

Vises—Automatic Swivel

Rock Island Tool Co., Rock Island, Il

Wagons

Sycamore Wagon Wks., Sycamore, Ill

Wall Register—Fittings

Meyer & Bro., Co., F. Peoria, Ill

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Boss Washing Machine Co., Cincinnati, Ohio
Paxton & Gallagher, Omaha, Neb.
Rotary Washing Machine Co., St. Louis, Mo
White Lily Mfg. Co., Davenport, Ia & Toledo, O

Weather Vanes—Ornamental

Foy, Edw. A. & Co., Cincinnati, O

Wire

American Steel & Wire Co., Chicago, Ill

Wire Goods

Denning Wire & Fence Co., Cedar Rapids,
Pittsburgh Steel Co., Pittsburgh, Pa

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For Sale—A clean up-to-date stock of hardware, plumbing, tinshop, electric supplies. Good location in the best farming country in northern Indiana. Reason for selling, failing health. Not afraid to show amount of business. Address M-40, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

For Sale—Tinshop with a first-class set of tools, including one 8-foot Robinson cornice brake. Good location. Doing a fair business. Only two shops in town of 5,500. Will take cash or equivalent. Address M 34, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 14-ufn

For Sale (Cash)—A well assorted stock of hardware and steam fittings. Will invoice about $6,000. Also two story brick store, built for hardware, with dwelling rooms on second story. This is a strictly cash business and will bear investigation. Address A. W. L. Hardware, Mt. Jackson, Virginia. 5-30

TINNERS' TOOLS.

For Sale — One set tinner's tools. Will sell very cheap. Tools not new but in good condition. Includes 30 inch P. S. & W. squaring shears. Write for list of tools and prices. Address Dixon & Conway, Elroy, Wisconsin. 16-2t

Wanted to Buy—One good second-hand cornice brake. Give full description and price. Address Pioneer Hardware Co., Watertown, South Dakota. 15-3t

For Sale—One 20-inch tin folder, one 30-inch Wright's sheet iron folder, one R. & W. Landers pat. circular shears. Will sell separately or combined to suit buyer, and will sell cheap. Adress Casselton Hardware Co., Casselton, N. D. 15-3t

HELP WANTED.

Wanted—Young man who wishes to learn the plumbing and heating trade in an Illinois town near Chicago. Address M-43, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 16-2t

Wanted at Once—A first-class tinner and furnace man. Will pay $3.00 the year around. Address Peterson & Adams, Devils Lake, N. D. 16-3t

Wanted—Salesman for water power washing machines, to travel Illinois, Iowa, Missouri and Wisconsin. Want one acquainted with the hardware trade. State age, experience and salary expected. Address M-42, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 16-2t

Wanted—A good tinner for in and outside work. German; married man preferred. One who is sober and wants a good job all year round. To such a man I can give steady employment. My shop is second to none for country town. Caledonia is a thriving town of 1,500 inhabitants and is the county seat of Houston county. Address H. C. Seuffert, Caledonia, Minnesota. 16-3t

Wanted—At once, a good all around tinner and furnace man. Steady job. State wages per week. Address F. N. Hollister, Sabetha, Kansas. 16-3t

Wanted—Young man to learn tinner and plumber's trade. Also to clerk in store part of time in a town of 1,000. Address M-37, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Wanted—Tinner and clerk in small country town. Steady work by the year. Address Mason Hardware Company, Alex, Oklahoma.

Wanted, Tinner—A man with two or three years' experience at roofing and spouting; nearly all country work. Honest and sober. Single man preferred. Address C. C. Hall, Evansport, Ohio. 14-3t

Wanted—A first-class tinner and furnace man. One who can lay out and estimate from plans, and take charge of shop. Must be sober and reliable. Married man preferred. State age and wages wanted. Address 211 First Ave., Sterling, Ill. 14-3t

Wanted—A good tinner. Must be married and steady man. State wages wanted. Steady work the year round. Address Hoernel Hardware Co., Racine, Wisconsin. 14-3t

SITUATIONS WANTED.

Situation Wanted—By a first-class tinner and furnace workman who is up-to-date, sober, steady and reliable. A good job workman and all around mechanic. Nothing but a steady position in a country town in Illinois. State wages. Address Tinner, Box 317, Monticello, Indiana. 16-3t

Position Wanted—By a first-class tinner and furnace man. Skilled in work. Strictly sober and reliable. Address M-41, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 15-3t

Situation Wanted — Young man with over twenty years' experience in the stove and range business and well up in same, is desirous of representing some good line on the road. Southern territory preferred. Address Box 313, Valdosta, Georgia. 15-2t

Situation Wanted—By experienced tinsmith and sheet iron worker. Married. Steady job preferred. Address J. Kretshmer, 6412 Ellis Ave., Chicago. 15-2t

Situation Wanted—By a general all around tinner and furnace man with some experience at plumbing. Am strictly temperate. Can furnish best of references. A steady, permanent place only would be considered. Address "Tinner," 912 Maple St., Atlantic, Iowa. 14-2t

Situation Wanted—As tinner. Understands roofing spouting, hot water heating and jobbing. Want a good steady job with some good reliable firm in Kansas City, or state. Am married, strictly honest and sober. In answering kindly state wages paid and how long job will last if both parties agree. Address E. H. May, Bedford, Ohio, Box 537. 14-3t

Situation Wanted—By a good all around retail hardware man able to do tin work, furnace work, some plumbing and hot water heating, pump and windmill work, and gasoline engine repairing. Am a good salesman and not afraid to work. Married and no booze fighter. I want a steady job by the year. Furnish the best of references. Kindly state wages. Address M 35, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

Situation Wanted—By an expert furnace man and tinner for an inside job. 25 years 'experience. Can estimate work and manage shop. Sober, industrious married man. State wages and full particulars. Address E. C., 111 West Washington St., Winchester, Indiana. 14-3t

SPECIAL NOTICES.

MICA SALESMEN WANTED. to sell Mica to the retail trade. Very easy to sell. Samples carried in pocket. Commission 10%. Mica delivered free. Address S. F., care of THE AMERICAN ARTISAN, 69 Dearborn street., Chicago. 13-3t

WANTED

Twenty [20] first-class tinners and cornice makers for 58-hour open shop. Address F. J. LOVE, Secretary Master Sheet Metal Workers' Association, South 171 Monroe St., Spokane, Washington. 15-2t

Situation Wanted

As traveling salesman. Would prefer Southern Iowa or Northern Missouri. Extensive acquaintance with trade. Address K-31, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-ufn

WANTED

First-class gas range, cast iron and sheet metal pattern fitter.

Also first-class iron pattern filer. Address K.41, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 16-1t

FOR SALE

A fine set of Oak Stove Patterns, wood and iron. Almost new. Complete with fallow boards, 14, 16, 18 and 20 inches. Price low for quick sale. Address, BARSTOW STOVE CO., Providence, Rhode Island. 13-4t

FOR SALE

Tin and furnace shop, first-class tools as good as new, 1 horse, 2 wagons, 1 O. K. Steel Brake (new). Will invoice $1,200. Reasons for selling, going out of city. Will sell for cash only. Address Lake View Tin & Furnace Co., 1871 E. 119th St. S. E., Cleveland, Ohio. 9-ufn

DEAD OR SLOW MOVING STOCK?

If you have a large lump of hardware Merchandise, that you want disposed of *quickly* at a *sacrifice*, address "Quick Sales," care THE AMERICAN ARTISAN and get our proposition. It will be optional with you as to whether you are known or not known in the sale.

Residences and Small Buildings

need comparatively as much ventilation as larger constructions. Very frequently the ventilation of a residence is left to the cracks and crevices—which at best is most unsatisfactory and inadequate.

Absence of all odors, dampness, drafts and providing the pure, healthful atmosphere in the home is the result of using Burt Ventilators.

Burt Ventilators

are praised in actual use. Read the following extract from a letter from one of our Cincinnati representatives:

"Three 20-in. and One 24-in. Glass Top Burt Ventilators are to go on Mr. C. P. Taft's residence (brother of William H. Taft, Secretary of War). The architect stated positively that nothing but Burt Ventilators would be allowed to go on this work. So you see that speaks well for you."

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Further information in reference to the use of Burt Ventilators for residences will be gladly given.

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Largest Manufacturers of Oil Filters and Exhaust Heads in the World.

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SPECIAL NOTICES.

SALESMAN WANTED

To carry a good line of Stove Polish as a side line. Cash commission basis. Address for full particulars, K-25, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

6-6t

PROPOSALS FOR INDIAN SUPPLIES.—Department of the Interior, Office of Indian Affairs, Washington, D. C. March 16, 1908. Sealed proposals, plainly marked on the outside of the envelope: "Proposal for rubber goods, shoes," etc., as the case may be, and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until 2 o'clock p. m. of Tuesday, May 5, 1908, and then opened, for furnishing the Indian service with rubber goods, shoes, hardware, and medical supplies. Sealed proposals, plainly marked on the outside of the envelope: "Proposal for enameled ware, furniture," etc., as the case may be, and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until 2 o'clock p. m. of Thursday, May 7, 1908, and then opened, for furnishing the Indian service with enameled ware, lamps, furniture, bedding, stoves, agricultural implements, paints, oils, glass, tinware, wagons, harness, leather, shoe findings, saddlery, etc., school supplies, and a long list of miscellaneous articles. Bids must be made out on Government blanks. Schedules giving all necessary information for bidders will be furnished on application to the Indian Office, Washington, D. C.; the U. S. Indian Warehouses at New York City, Chicago, Ill., St. Louis, Mo., and Omaha, Nebr. The Department reserves the right to reject any and all bids, or any part of any bid. F. E. LEUPP, Commissioner.

A business man being asked by an advertising solicitor for an "ad," answered, "I did a great deal of advertising when I started in business and now I am well enough known to get along without it." The solicitor asked him if he knew who had run for the office of Vice-President the election before last. The business man did not. The solicitor then asked him if anyone had been better advertised at the time. This brought the "ad."

The expense and annoyance of painting will not recur every year or two if you use

Dixon's Silica-Graphite Paint

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Prompt Shipment **Low Prices**

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Buy your foundry supplies of me. I manufacture Polishers' and Platers' Compositions and Supplies, Foundry Facings and Supplies, in fact "Everything for the Foundry."

Prompt Shipment. Price the Lowest. Quality the Best.

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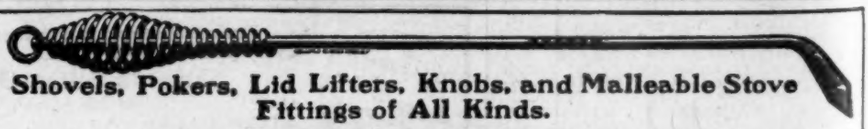

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WE MINE OUR OWN SLATE

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or any other kind of showers or variable weather will not affect the roof covered with
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32 POUNDS COATING
ROOFING TIN
"The Terne which turns the elements"
The prime and perfect base plate, its thick coating of pure tin and new lead, and its freedom from imperfections—make it impervious to the most severe and changeable climates. Over half a century of constant proving makes the use of M. F. no experiment.
Send to our Advertising Department for a sample piece of M. F. and examine it for yourself.
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Made from Galvanized Tin and Painted Tin
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A sure cure for smoky chimneys, the best for ventilation.
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The heads are extra heavy cast iron, connected by spiral steel springs whose tension adjusts them to any thickness of floor or partition.
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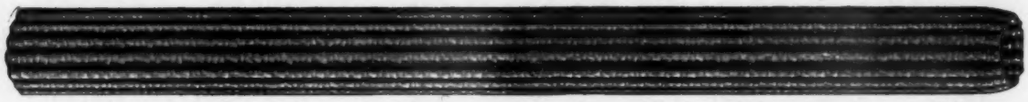

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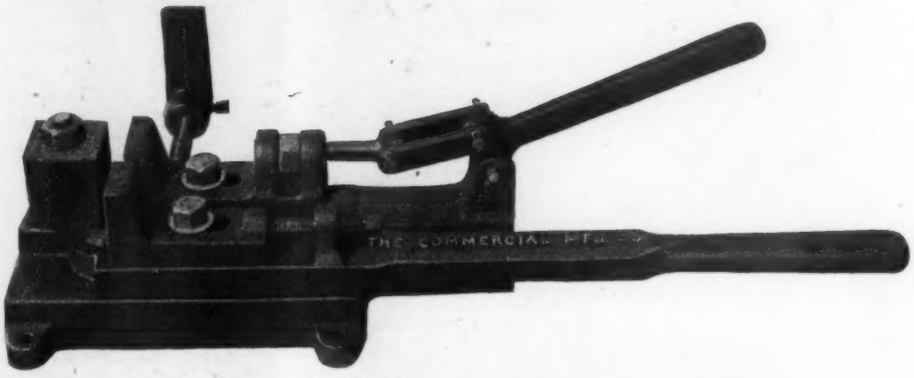

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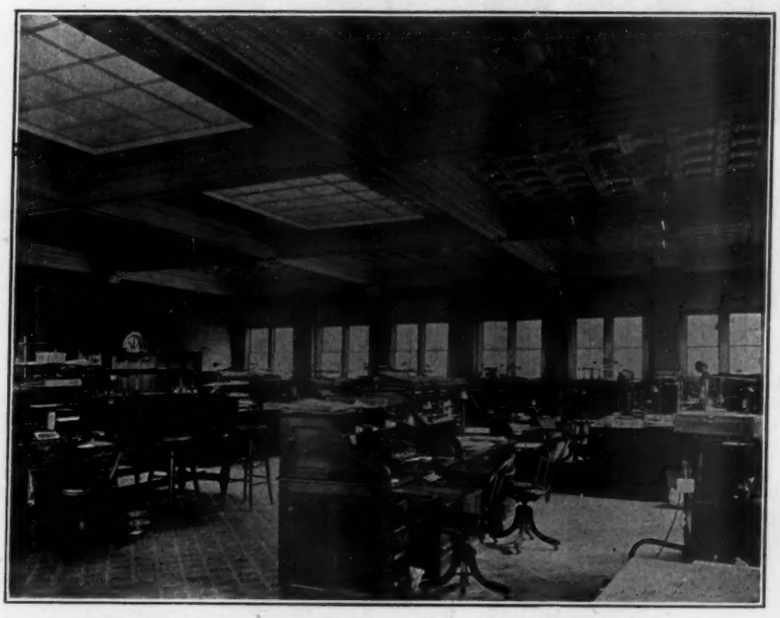

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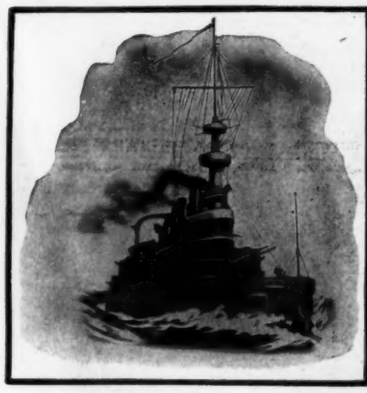

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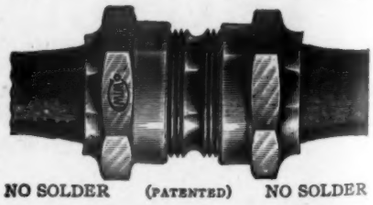

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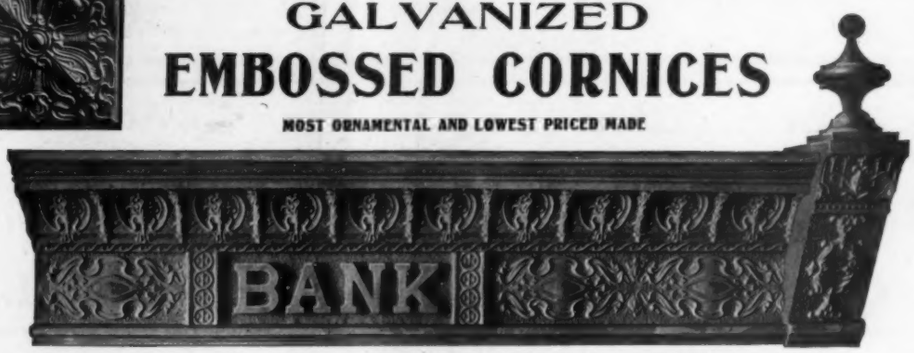

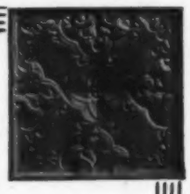

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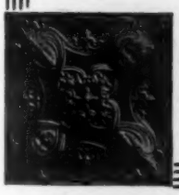

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Let's get right down to business, Mr. Sheet Metal Man.

We know we can serve you right, but do YOU know it?
And how're you going to find out unless you try us and see for yourself.

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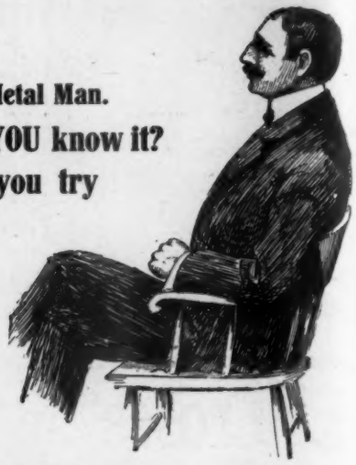
WE CAN MAKE THE PRICE.



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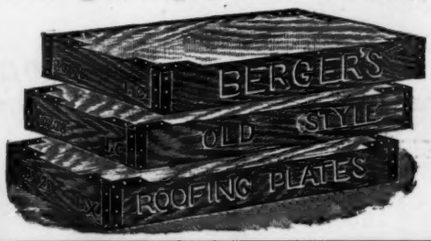

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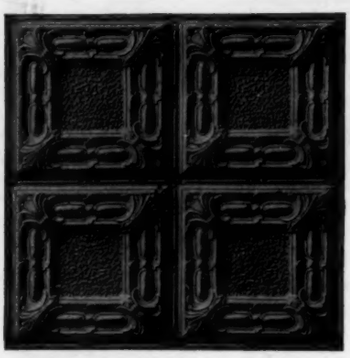
Largest Sheet Metal Workers in the World

BRANCHES: New York, Philadelphia, Boston, Chicago, St. Louis, Atlanta San Francisco, Minneapolis.

Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths. Will not burst when full of ice.

CLARK, QUIEN & MORSE, PEORIA, ILL.



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The James H. Watson Company, Inc.
BRADLEY, ILLINOIS

Some time—some day, long after you've forgotten the slight additional cost, you'll be glad you had the good judgment to select a Keighley Lock-Joint Metal Ceiling. For your ceiling then will still be "absolutely dust-proof and air-tight." The joints will never start open—they can't.

Why not decide to-day to get the dust-proof ceiling? At least write for a copy of Catalog "D."

S. Keighley Metal Ceiling & Mfg. Co.
PITTSBURGH, PA.
Baltimore, Md. Washington, D. C.
New York, N. Y. Boston, Mass.

Will It Pay You

To Handle Cortright Metal Shingles?

Judge for yourself—A Cortright roof can be laid in half the time required to lay a plain tin roof—consequently your profit would be double.

Plain tin roofs are not adapted for handsome residences—Cortright Shingles are adapted for all buildings except where the roof is flat. They don't conflict with plain tin roof work, yet they open a vastly wider field for your operation—catch the idea?

Our booklet—"Rightly Roofed Buildings" will give a few other advantages—it's free.

CORTRIGHT METAL ROOFING CO.

PHILADELPHIA and CHICAGO

Gerock Bros. Mfg. Co.

Sheet Metal Ornaments and Statuary

Detail Work a Specialty

Ask for Catalogue

1227 Manchester Ave.

ST. LOUIS, MO

A TRIAL

will convince you that 'Canton" Metal Ceilings have a construction that is unequaled. The alignment is straight and regular, which means a saving in time and expense in the erection. Expense of erecting is where you find your profit. Art in Canton Metal Ceilings is one of the features. Complete assortment of classified designs. Our Art Metal Book "H" for a postal. It's up to you.

METAL CANTON CEILINGS

The Canton Art Metal Co.

CANTON, O.

New York Office: 525 W. 23d St.

Metal Roofing and Siding.
Corrugated Sheets, painted or galvanized.
Metal Window Frames and Sash Glazed with wired glass.
Skylights.
Skylight Gearing.
Price lists and estimates furnished upon request.

Sykes Steel Roofing Co.

108-120 West 19th Place

CHICAGO, ILL.

C. N. HOOPER, Dubuque, Ia.

Vitreous Enameling TECHNOLOGIST

Designs, builds and starts new plants, improves quality and reduces the costs in those already established.

THE HARRINGTON AND KING PERFORATING CO.

PERFORATED METALS

OF EVERY DESCRIPTION AND FOR ALL PURPOSES

FOR SCREENS OF ALL KINDS

No. 212 NORTH UNION STREET, CHICAGO, ILL.

New York Office: 114 Liberty Street.

DELPHOS B. B. GALVANIZED SHEETS

Absolutely Perfect.

DELPHOS Corrugated, Pressed Standing Seam, V Crimp, Three V Crimp, Roll, and Roll & Cap Galvanized Roofings.

All Roll Roofings Resquared and Double Cross Locked.

DELPHOS Galvanized Eaves Trough, Conductor Pipe, Elbows, Etc. Roofing Plates (All grades).

SOLDER—Faultless, B. T. & L. and Standard Brands.

DELPHOS MFG. COMPANY

DELPHOS, OHIO

Write for our New Catalogue.

LIGHTNING RODS

¶ Now is the time for you to get in your order for our pure copper cable. The spring storms are coming soon and you will have call for a good pure copper cable rod. We loan you one of our improved Static machines FREE, and furnish the best goods there are on the market, and our prices are right. Write today before the Agency and Territory are gone.

MAHER & SON LIGHTNING ROD CO., Preston, Ia.

ELECTRA LIGHTNING ROD CABLE AND FIXTURES

NOTHING BETTER PRICES LOWEST WRITE TODAY

ELECTRA LIGHTNING ROD CO., 220-240 Market Street, CRESCO, IA.

Iwans' Volcano Revolving Chimney Top

Sizes 6 to 12 inches. Sold by jobbers of Hardware and Tinners' Supplies.

Notice one of its **Strong Features.** The upward sloping opening in back of hood creates a constant upward draft, no matter how depressing the atmosphere.

You need it for some of your customers' chimneys.

Send postal for catalogue.

IWAN BROTHERS

Mfrs. of Hardware Specialties

STREATOR, ILL.

Blick No. 3 The Best Box For Rural Free Delivery

Be Just With Customers

Sell them Blick No. 3 boxes. They are big ones, 6½ x 8½ x 19 inches. Made of heavy galvanized steel. Painted green, the new government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Watertight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

Blick-Williams Co.

Indianapolis, Ind.

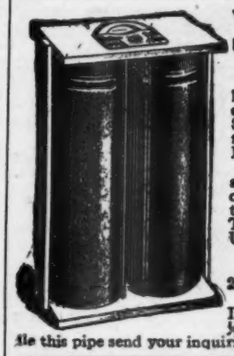
LIGHTNING RODS

We manufacture Pure Copper Wire Cables, made of 28, 30 and 49 Wires, with complete outfit of trimmings.

E. A. FOY & CO.,

CINCINNATI, OHIO.

Trade Supplied at Lowest Rates. Send for Catalogue "O."



YALE

Russia finish, pat. lock

STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY

HEMP & CO.

2nd & Chouteau Ave.

ST. LOUIS

In the event your jobber does not handle this pipe send your inquiries to us.

32 FEET DRYING SPACE

UMBRELLA CLOTHES BAR

Handy in Laundry, Kitchen and Nursery. Handy Everywhere. Each arm one piece, kiln dried hardwood, works independently.

MARTCROSS CO., Mfrs.

40 Dearborn St., CHICAGO

Worth Considering

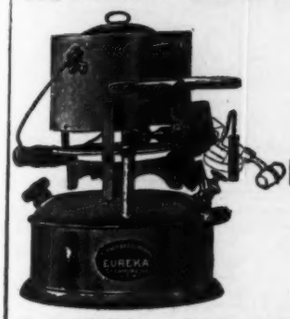
No. 1 Fire Pot $6.00 Net.

The No. 1 world-famed Clayton and Lambert Fire Pot is characterised by finer material, better construction and more practical points of utility than are found in other makes. Its use is dictated by the principles of economy, because it consumes but half the gasoline others require, lacks nothing in heat efficiency, is always ready for business and expedites your work through its convenience and adaptability in handling and operation. GET ONE NOW. DO BETTER WORK AT ONCE. Booklet free.

Jobbers supply at factory price, or we will ship direct, if cash accompanies the order.

CLAYTON & LAMBERT MFG. CO., Detr.it, Mich.

HOTTEST ON EARTH



LET US PROVE IT

No. 6 EUREKA. Price each, $6.00 Net
No. 14 EUREKA Price each, $4.50 Net

Jobbers sell at factory price.

THE TURNER BRASS WORKS
26 Park Avenue Sycamore, Ill., U. S. A.

Class C Punch

We build a complete line of Punches, Shears and Bending Rolls, all sizes up to 75 tons in weight, for Boiler, Bridge Structural and Sheet Iron Shops.

Write for Catalog "F"

BERTSCH & CO., Cambridge City, Ind.

SKYLIGHT GEARING AND CHAIN LIFTS

Tinsmiths, Plumbers, Cornice Makers, and Coppersmiths TOOLS

Pipe Threading Machines

Second Hand Goods Bought and Sold

H. WEISS & COMPANY
20 Cliff Street, NEW YORK

THE ELLER TRADE-MARK

is a little thing to look for, but a big thing to find; it appears on all genuine

ART METAL CEILINGS

Tin and Terne Plate
Eaves Trough, Conductor Pipe
Elbows and Shoes
Steel Roofing
Brick and Stone Siding
Cornice and Skylight

ELLER MFG. CO. : : CANTON, OHIO

FREE CATALOGUE

to anyone for asking showing complete line of

TINNERS' AND ROOFERS' SUPPLIES.

Large stock, great variety, prompt shipments.
Get our prices.

BERGER BROS. CO., OFFICE AND STORE, 237 Arch St.; WAREROOMS, 100-02-04 Bread St.; FACTORY, 3114-16-18-20 N. 17th St., PHILADELPHIA.

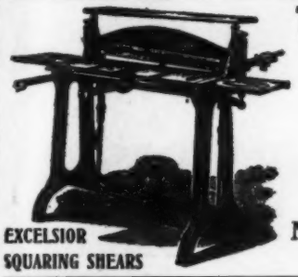
TOOLS FOR SHEET METALS

INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies. Can-making Machinery

MADE BY

Niagara Machine & Tool Works
BUFFALO, N. Y.



EXCELSIOR SQUARING SHEARS

MARVEL

Patent applied for

PORTABLE PUNCH No. 20

Made entirely of STEEL

Capacity ¼ inch hole in ¼ inch.
Length 38 inches, weight 16 lbs.
Write for circular and price of this and other Marvel Tools.

ARMSTRONG-BLUM MFG. CO.,
106 N. Francisco Ave., Chicago, Ill.

Two Reasons Why The Steel Brakes Are Better

Others Will Follow

1. By our patented construction we have succeeded in getting the greatest amount of strength with the minimum weight. They work much faster and easier, and do fully one-fourth more of the average work than any other brake.

2. They are made of Bessemer Steel, and all the working parts where strength is required are made of non-breakable steel castings.

You will be surprised to find out how cheap you can buy this up-to-date machine
WRITE FOR CATALOGUE.

Dreis & Krump Mfg. Co., Halsted and 32d Sts., Chicago

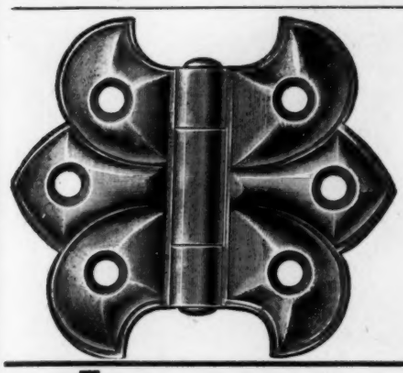
C. G. Hussey & Company

PITTSBURGH, PENNA.

Manufacturers of

Soft Copper, Copper Gaskets, Copper Bottoms, Soldering Irons
Copper Nails and Tacks, Tinned Copper, Polished Copper,
Cold Rolled Copper, Special Shapes Sheared or Stamped Slating Nails.

PROMPT SHIPMENT FROM STOCK.



STRAP and T HINGES—BUTT HINGES

Also a complete line of Shelf Brackets, Barn Door Hangers, Door Bolts, etc. Our wrought surface hinges are strong, massive and beautifully finished, and every one perfect. All Goods Guaranteed.

WRITE FOR COMPLETE CATALOG.

THE GRIFFIN MFG. CO. Erie, Pa.

LUFKIN Measuring Tapes

are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

¶ Our extensive advertising creates a demand, that every progressive dealer should be able to satisfy.

¶ It takes but a minute and a postal to ask for our catalog—it's more than worth while.

Please Mention The American Artisan

THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.

New York London, Eng. Windsor, Ont.

DISSTON SAWS

Run Easiest
Cut Fastest
Last Longest

To the practical Saw User this tells the full story of HIGHEST PERFECTION in Material, Temper, Design and Workmanship attained for the DISSTON BRAND OF SAWS.

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel and File Works

PHILADELPHIA, PA.

A NEW PATTERN STANDARD LEVEL—Two Level Glasses, One Plumb Glass

Side glasses may be reversed at any time; all easily adjustable; all glasses in plain view from both sides; brass trimmings on both sides.

No. 31—Solid Cherry.
No. 32—Three-piece Cherry.
No. 33—Solid Mahogany.

THE BAKER-McMILLEN COMPANY, Akron, Ohio.

THE WM. SCHOLLHORN CO.

NEW HAVEN, CONN., U. S. A.

Manufacturers of

BERNARD'S PATENT TOOLS

Pliers, Nippers, Spring Belt and Ticket Punches, Bolt Clippers, Dividers and Hardware Specialties, under the "Bernard," "Paragon," "Elm City," "Lodi" and "Excelsior" Brands.

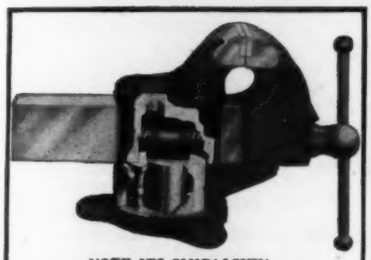
Write for Catalogue

Richards Cycle Ball-Bearing Steel Frame Grindstone

EASY TO SELL

Built on up-to-date mechanical principles. Stone guaranteed best quality Berea grit for general grinding. The frame is the strongest and most rigid on the market on account of its peculiar construction.

Made by
The Richards Manufacturing Co.
Aurora, Illinois



NOTE ITS SIMPLICITY

Automatic Swivel Vise

Locks Automatically by Tightening the Jaws

Saves 20 per cent Vise Labor

SEND FOR CATALOGUE.

ROCK ISLAND TOOL CO. ROCK ISLAND ILLINOIS, U.S.A.
ROCK ISLAND

136 Liberty St. NEW YORK
116 Lake St. CHICAGO
DENVER, 208 McPhee Building

ELEVATORS

Improved Quick and Easy, Rising Steam, Electric and Hand Power.

SEND FOR CIRCULAR.

KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IOWA
Kimball Elevator CO., 139 Vincent St., Cleveland, O.

You're Selling Churns—

Are They the Best?

The churn that sells the best, and, incidentally, brings the most profits, is the one that churns the best butter at the least expense of time and energy. Numerous demonstrations held at various agencies, experimental stations, etc., have proved that

The Dairy Queen Churn

makes and gathers butter in two to three minutes—butter that is sweet, granulated, pure. Extensively advertised. Sells on sight. Every user becomes a satisfied customer. Fully guaranteed. Exclusive agency in unoccupied territory. Write for catalog 18 and special agents' prices.

DAIRY QUEEN CHURN CO., Monmouth, Ill.

"Yankee Tools"

New Styles—Have You Seen Them?

Are Without Equal in Quality or Efficiency in Practical Use

MAGAZINE RATCHET SCREW DRIVER, NO. 65

RATCHET DRIVER with SCREW HOLDER NOS. 110-111-115

RATCHET "SCREW EYE" DRIVER, NOS. 80 and 81

ASK YOUR JOBBER ABOUT THEM

Send for "Yankee" Tool Catalog.

North Bros. Mfg. Co., Philadelphia

260,000 SHRP-SHAVR

Safety razors sold the first three months in 1908. Repeat orders are coming in by wire.

"IT'S ALL IN OUR BLADES."

We give more value in our **25 Cent Razor** than any other Safety Razor Manufacturer. They are scientifically made and give you a clean velvet shave.

GUARANTEE:
"Money back if you want it."

$2.00 per doz. delivered through any jobber in the U. S. A.

SHRP SHAVR RAZOR CO.

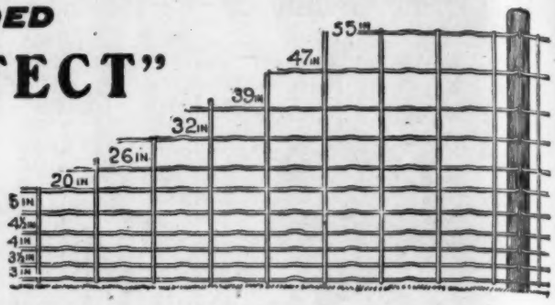
SMITH & HEMENWAY CO., 108-110 Duane Street, New York, U. S. A.

Put That Advertisement in **THE AMERICAN ARTISAN** If You Want Results

Eliminate All Your Fence Troubles by Using the

ELECTRICALLY WELDED

"PITTSBURGH PERFECT" Fences



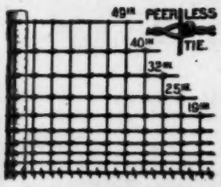
The strongest on the market and the most satisfactory. You can't know what a really good fence is until you have tried the

"PITTSBURGH PERFECT."

WRITE FOR OUR CATALOG TO-DAY.

Pittsburgh Steel Co., Pittsburgh, Pa.

THE DENNING FENCE



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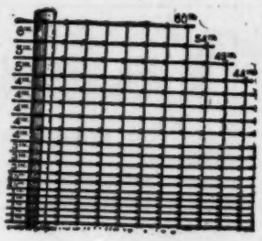
For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.



THE DENNING WIRE & FENCE CO., Cedar Rapids, Iowa.

INTERCHANGEABLE
LOCK-CORNER SHELF BOXES
For the Hardware Trade.
THE A. H. GREEN CO.,
97-101 Warren St., NEW YORK.

STANDARD HORSE NAIL CO.
NEW BRIGHTON, PA., U.S.A.
MANUFACTURE
A Full Line of Horse Nails
Send for Catalogue, Prices & Samples.

FOR SALE

To Hardware Merchants only—purchases limited to $3,000 in any one year—Fire Insurance policies worth one hundred cents on the dollar every day in the year, and at 40% less cost than you have been paying your Stock Companies. Isn't that a saving worth while? Think it over. If you have any doubt as to the quality of the Insurance we furnish, we can give you satisfactory references. Write for full particulars to-day.

Iowa Hardware Mutual Insurance Association

MASON CITY, IOWA

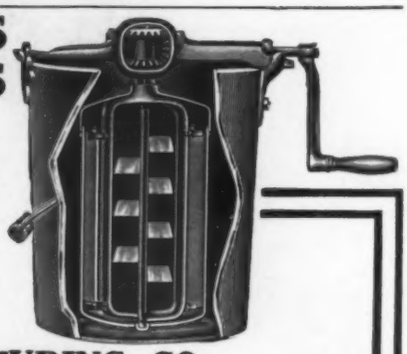
S. R. MILES, President **A. R. SALE, Secretary**

To The American Artisan,
Chicago, Ill.

Your Paper is the best of its kind in the market. I received thirty-six letters during the past three weeks from parties looking for tinners and plumbers. Many thanks for the ad.

P. C. Westphal,
Paynette, Wisc.

MAKES MONEY FOR YOU—SAVES MONEY FOR YOUR CUSTOMERS



The Jack Frost Freezer **makes** money for you because you can sell more than any other make, and it **saves** money for your customers because it saves Ice, Time, Work—and lasts longest.

The Jack Frost Ice Cream Freezer

is multiple motion—every turn of the crank helps freeze the cream. All gearing self-lubricating and covered so no oil gets in can.

Tub made of seasoned, kiln-dried lumber that doesn't warp, shrink or rot. Can is high-grade charcoal plate throughout, cover drawn absolutely seamless. All metal parts heavily galvanized.

Ask to know more about the Jack Frost Freezer. Our proposition will interest you. Your profit on the Jack Frost is good and the freezer always "makes good", which brings the same customer back to your store to buy other goods. Write us, asking for Catalogue No. 75.

STURGES & BURN MANUFACTURING CO.

Makers of Milk Cans, Packing Cans, Freezers, Griddles, Sheet Iron Specialties, etc.

Harrison and Green Streets, CHICAGO, ILLINOIS

YANKEE DAMPERS and CLIP (All Steel)

SMOKE PIPE SIZES
3 inch to 8 inch

HOT AIR PIPE SIZES
6 inch to 15 inch

Easiest to Get In or Out

Best & Cheapest Damper Made

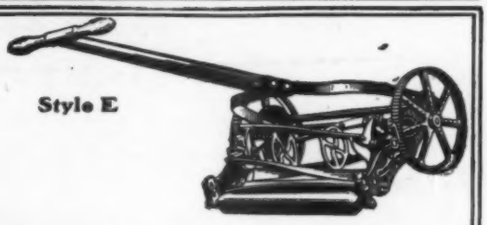
GET OUR PRICES

The S. M. Howes Co.

40, 42, 44, 46 Union Street, BOSTON

SAMPLE FREE

Style A



Style E

The Big 4 Combination in Lawn Mowers

Send for circular and prices.

The Genuine PHILADELPHIA Lawn Mowers

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivalled Why Durable

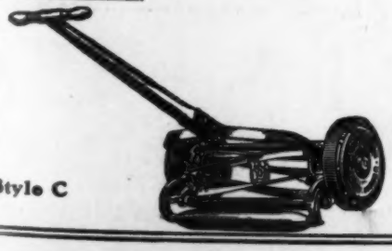
all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

Are made in
6½ to 12 in. wheels
3 to 8 blades
17 style hand
5 horse mower

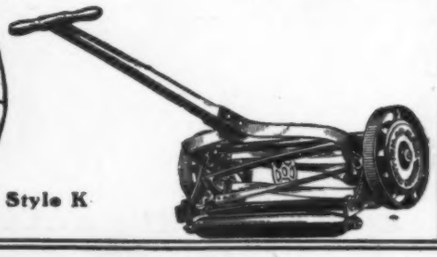
Standard Mowers the world over.

THE PHILADELPHIA LAWN MOWER CO.

3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.



Style C



Style K

"ROTARY"

The washer that is making a hit

UNEQUALED IN

STYLE, FINISH, DURABILITY or EASE of OPERATION

SOLD ON EXCLUSIVE AGENCY PLAN

Write us and let us tell you more about it

ROTARY WASHING MACHINE CO., ST. LOUIS, MO.

The White Washer

DOUBLE BALL BEARING. FLY WHEEL UNDER THE TUB. HIGHEST SPEED. EASIEST RUNNING. QUICKER REVERSE. FOOT POWER ATTACHMENT. TUB OPENS WHEN MACHINE IS IN FULL MOTION. FIVE YEARS' GUARANTEE. SOLD TO ONLY ONE DEALER IN EACH TOWN.

Ask for Exclusive Agency
and Get Acquainted With

The White Way

White Lily Manufacturing Co.
1500 Rockingham Road, - Davenport, Iowa

The "ONE MINUTE" Washer

Exclusive Jobbing Representatives for the West and Northwest

Sold on Exclusive Agency Plan Only

Paxton & Gallagher Co.
OMAHA, NEB.

We Have a Hardware Delivery Wagon That You Can Depend Upon

Body 20 in. from the ground, full width; regular height wheels, and yet will turn short.

EASY TO LOAD AND UNLOAD

Durability guaranteed.
Complete catalogue on request.
Mention this paper and address in full.

SYCAMORE WAGON WORKS
109 Edwards Street. SYCAMORE, ILL.

GRAY'S
Perfect Elbow Patterns

On Heavy Blue Print Paper

Set A Elbow Patterns from 1" to 20". Made in 2, 3, 4 and 5 piece. 80 patterns.

Price $1.50, Prepaid

Set B Elbow Patterns from 20" to 40". Made in 5, 6, 7 and 8 piece. 80 patterns.

Price $1.50, Prepaid

Sets A and B Patterns from 1" to 40". 160 patterns and angle charts showing all angles and degrees of same gotten from 160 patterns. An exhaustive work strongly recommended by eminent critics.

Price $3.00, Prepaid

GRAY'S
Perfect Skylight Patterns

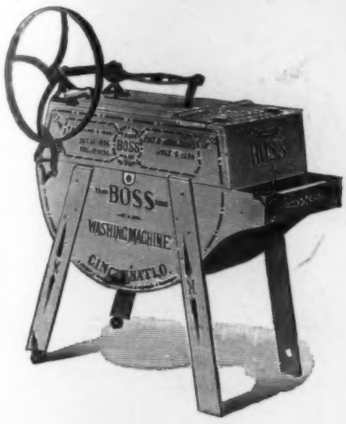
For Single Pitch Skylights
For Gable Skylights
For Hip Skylights

Contains 6 to 8 and 10 inch ventilator patterns and skylight chart giving the length to cut hip and rafter bars for any size skylight up to 24 feet wide, for one-third pitch skylights. Full set of patterns and charts.

Price $3.50, Prepaid

DANIEL STERN

69 Dearborn Street
CHICAGO



"BOSS" WASHERS

Have stood the test of fifteen years' practical use, and are still acknowledged to be the only washers that will wash absolutely clean and without danger of injury to the finest garments.

The "Boss" is the only washer constructed on the "wash board" principle of rubbing and at the same time forcibly driving the water through clothes, which is conceded to be the only true and satisfactory process for cleansing clothes.

The "Boss" is the only washer having a separate chamber where dirt and lint accumulate when separated from clothes.

The "Boss" is well advertised for the benefit of the dealer—is in demand—sells easily and gives the best of satisfaction wherever used, consequently we emphatically state it is the washer every dealer should handle who desires to increase his profits and sales.

There is only one genuine "Boss," therefore, when ordering see that your wants are supplied with the "Boss," bearing our label, which is your protection against inferior and worthless substitutes, for the discerning public will have none but the genuine "Boss."

Address your nearest jobber or us direct for further particulars.

THE BOSS WASHING MACHINE CO.

CINCINNATI, OHIO

Agate

NICKEL-STEEL

Ware

AGATE L&G Mfg. Co. NICKEL-STEEL WARE

is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

Lalance & Grosjean Mfg. Co.

Chicago New York Boston

PER. NOT ENT'D.
APR 20 1908

American Steel & Wire Co.

Chicago New York Worcester Denver San Francisco

Maker of

W. & M.

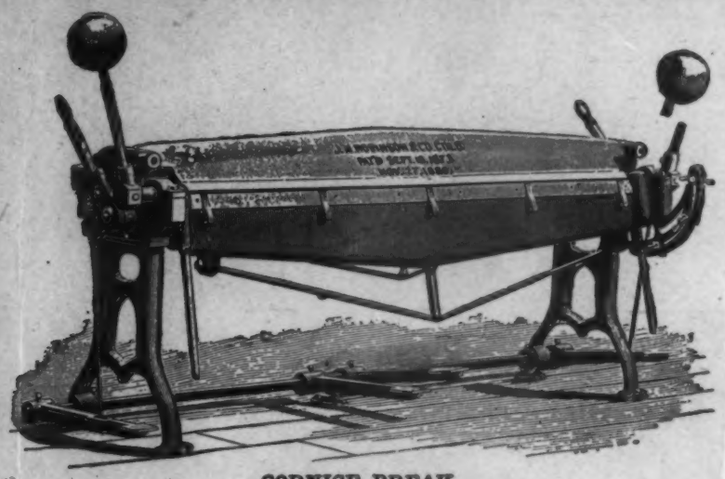
Telephone Wire

½ Mile Coil No. 8 Galv. B. B. Tel. Wire.

OUR W. & M. Telephone Wire is drawn from either steel or iron stock made especially for the purpose and rigidly inspected. The spelter is carefully laid on with uniform thickness. Lately improved processes of galvanizing are employed, ensuring ample protection and long life for the wire under extreme weather conditions.

In point of conductivity, this good wire has attained the highest possibilities of electrical science, and we submit our three brands, "E.B.B.", "B.B." and "Steel" as the best that can be produced.

4 Ft. BRAKE
Capacity 12 Gauge.



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Capacity, 20 Gauge and Lighter.

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Manufacturers of Sheet Metal Working Machinery

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Cherry season is short. Wise dealers have the **"Enterprise" Cherry Stoner** on their shelves in time. When a woman has her cherries ready for stoning she won't wait 'till you order it. She won't wait, either, for an **"Enterprise" Fruit Press.** When she wants it she wants it quick! She will go somewhere else if you haven't it. *Stir up the jobber.* Write to-day for our latest catalog.

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THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

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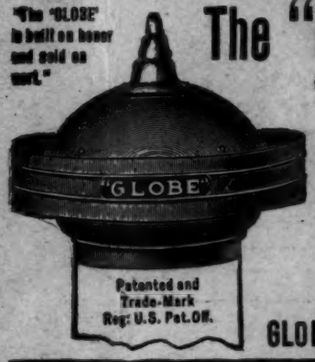

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For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character

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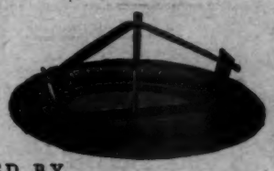
"GLOBE VENTILATED RIDGING"
Send for Pamphlet.
MANUFACTURED BY
GLOBE VENTILATOR CO., Troy, N. Y.

STAY-IN Flue Stoppers

are **guaranteed** to be absolutely soot proof. Cannot be jarred or blown from flue hole.

Finished In Brass and Nicely Decorated



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MILWAUKEE,	401 Iron Block	ROCHESTER,	359 State St.
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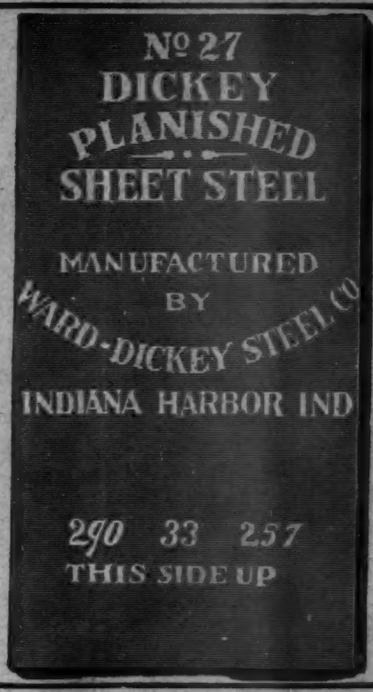

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